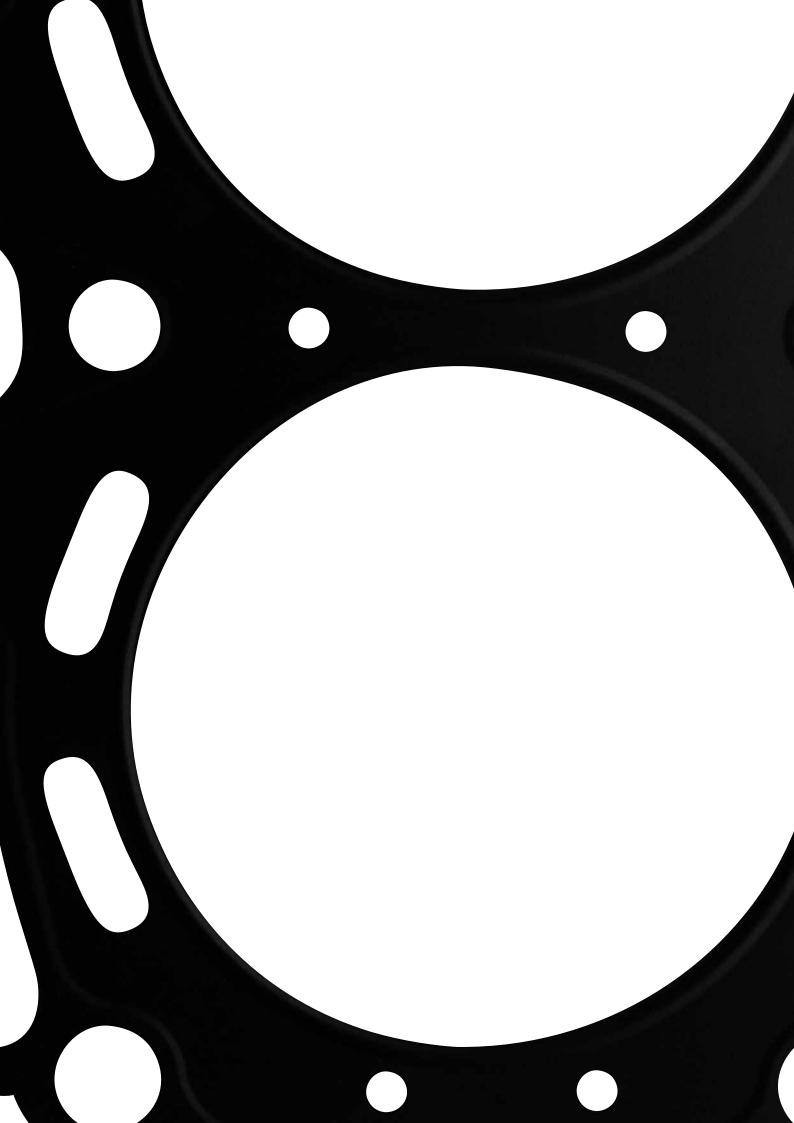




2016 CATALOGUE



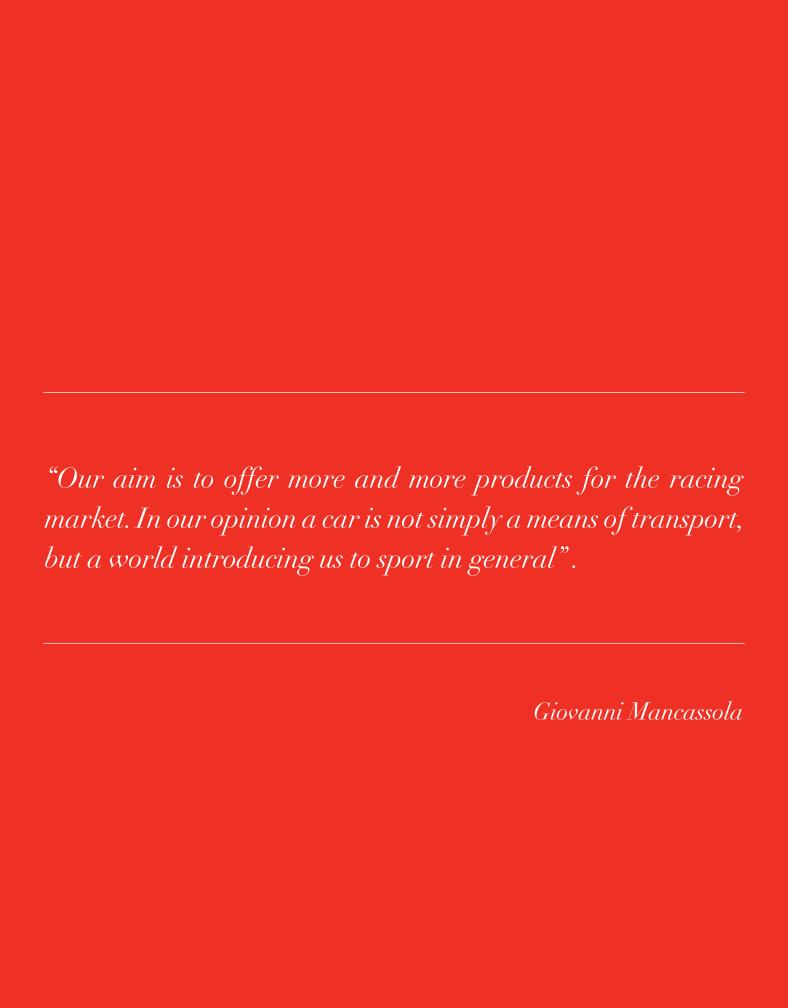


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Sales Conditions

THIS IS THE STORY OF THE ENTREPRENEUR GIOVANNI MANCASSOLA AND HIS COMPANY ATHENA. FROM A "GARAGE-LIKE" WORKSHOP TO A MANUFACTURING REALITY WITH 550 EMPLOYEES AND 10 BRANCHES AROUND THE WORLD, FROM BRASIL TO INDIA, WITH A GLOBAL TURNOVER EXCEEDING 70 MILION EUROS. ATHENA HAS BEEN IN THE MARKET SINCE 1973. NOWADAYS, IT IS A LEADER IN THE PRODUCTION OF GASKETS IN ITALY AND EUROPE, FOR MANY INDUSTRIAL APPLICATIONS: THE COMPANY IS CONSIDERED AS A BENCHMARK NOT ONLY FOR THE TRADITIONAL SPARE PARTS MARKET, BUT ALSO FOR RACING VEHICLES APPLICATIONS. "WITH THE PASSING OF TIME, WE HAVE ADDED ELECTRONIC UNITS AND DATA ACQUISITION SYSTEMS TO OUR MECHANICAL PART PRODUCTION. ENABLING THE DRIVER TO ACCESS ALL NECESSARY. INFORMATION ON THE TRACK, RACE AND VEHICLE", STATES THE CEO GIOVANNI MANCASSOLA. THANKS TO OUR DATA ACQUISITION SYSTEMS THE DRIVER KNOWS HOW TO BETTER MANAGE THE RACE OR THE TEST HE IS CONDUCTING. FURTHERMORE, WE DECIDED TO ADD PRESTIGIOUS BRANDS TO BE DISTRIBUTED ALONGSIDE OUR TRADITIONAL PRODUCT RANGE, IN ORDER TO OFFER OUR CUSTOMERS A WIDER RANGE OF SOLUTIONS. THE NEW BRANDS PERFECTLY EMBRACE THE CORE PHILOSOPHY OF OUR COMPANY: SERIOUSNESS, RELIABILITY, TECHNICAL EVOLUTION AND CONTINUOUS IMPROVEMENT, KEY FEATURES TO MEET THE EXPECTATIONS OF AN ALWAYS MORE DEMANDING, INFORMED AND QUALIFIED CONSUMER.





Athena 338146 FR

338

MULTILAYER GASKET

MATERIAL

- → MLS cylinder head gaskets are being fitted by many vehicle manufacturers as original equipment. Modern engines imply higher cylinder pressures and higher temperatures and MLS gaskets have been realized in order to cope with these new realities.
- → ATHENA MLS gaskets feature a combination of 3 to 5 layers made of different types of raw materials.
- → Outer and inner layers combination is designed to perform at higher compression levels than stock configuration and type of steels that are used may vary upon the engine requirements.
- → ATHENA MLS gaskets provide an even torque load across the sealing surface to compensate any type of bore distortion.
- → ATHENA MLS gasket is the best solution for both aluminum heads to cast iron blocks and aluminum heads to aluminum blocks.

MANUFACTURING PROCESS

- → Our New Design MLS Head Gaskets are made from high grade 301 stainless steel full hard material.
- → Each layer is individually formed using a state of the art laser cutting and embossed with an optimized formation process.
- → All head gasket layers go through a stress relieving process to significantly reduce embossment forming induced stress.
- → Proprietary two part polymer coating is applied after the stress relieving process and ensures uniform coverage of the outer layers providing no break in the coating. This process ensures the micro seal of engine coolant/oil fluids.
- → Athena MLS gaskets are tested and analysed on Engine Dynos and endurance performances.

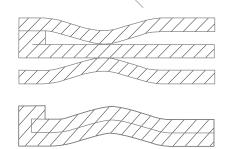
GAS STOPPER

Gas stopper technology is a key design factor of racing MLS head gaskets. The stainless steel stopper layer features a state of the art "active fold", which delivers a high pressure seal around the cylinder bore when tightening the cylinder head. Gas stopper is located around the combustion chamber, allowing cylinder head and engine block to clamp tighter and preventing gases to leak out of the combustion chamber. This also avoids component distortion by means of a quicker equalization of the various components temperature.

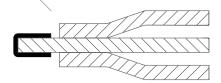
Benefits

- → Superior sealing properties under high pressure conditions
- ightarrow Higher elasticity and constant load resistance
- → Optimized load balance
- → Improved engine performance
- \rightarrow Longer durability

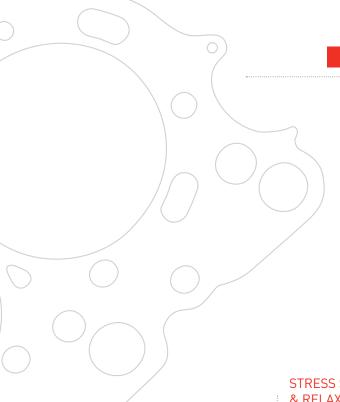
DIFFERENT TYPES OF GAS STOPPER



FIRE RING STOPPER

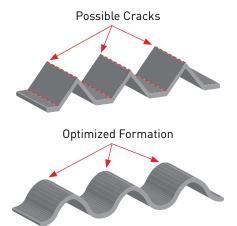






OPTIMIZED RADIUS

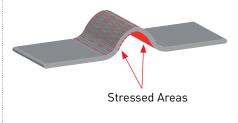
- → Our unique embossment formation process uses soft radius forming to optimize the embossment radius in critical areas.
- → This solution improves gaskets conformability, reducing stress points.
- → It also provides uniform clamp load distribution across the engine block deck and increases embossment surface contact area between engine block and cylinder head surfaces.



STRESS STABILIZATION & RELAXATION

- → All head gasket layers go through a stress relieving process to significantly reduce forming induced stress.
- → Pre-coated metals (used by some competitors) would not be able to survive this stabilization process.
- → Advantages of tempered metal are reduced hardness and brittleness, increased flexibility and deformation retention. Also relax stress points in the gasket after the embossment forming process. This stabilizes the gasket, resulting in reduced cylinder bore distortion and improved combustion seal around cylinder bore (embossment profile) to seal extreme pressure.

BEFORE STABILIZATION



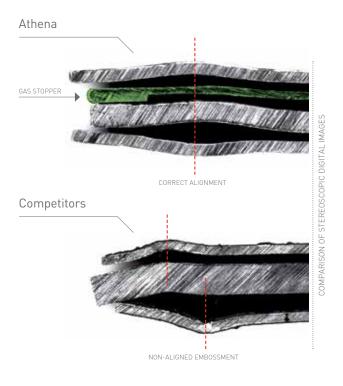
AFTER STABILIZATION

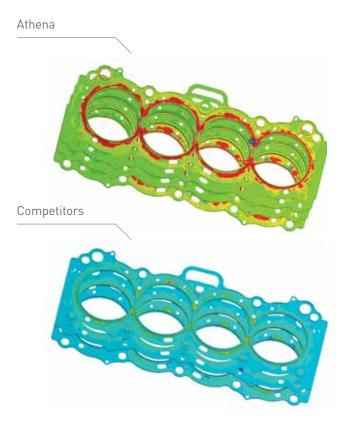


PROPRIETARY COATING TECHNOLOGY

- → Our two part polymer coating is applied after the stress relieving process and ensures uniform coverage of the outer layers providing no break in the coating. This process ensures the micro seal of engine coolant/oil fluids, and meets the demands of a variety of harsh environments.
- → The first layer is a high temperature compound that will conform to fill engine block deck surface and cylinder head surface irregularities. (Typical MLS head gaskets require a surface finish of 30 Ra, while Athena's will seal surface finishes up to 60 Ra).
- → The second layer itself releases easily and will not stick to mating surfaces when disassembling the engine, in order to prevent scratching or gasket corrosion.







ATHENA VS COMPETITORS1. Production burrs2.

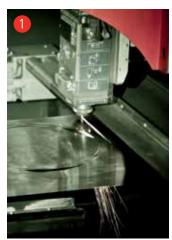
Embossment alignment3. "GAS STOPPER" technology

FEM TEST

FEM (Finite Element Method) allows our cylinder head gasket to be constructed and optimized before realizing their design and manufacturing. Benefits of FEM include increased accuracy, enhanced design and better insight into critical design parameters as well as virtual prototyping. FEM allows detailed visualization of the points where structures bend or twist, and indicates the distribution of stresses and displacements. FEM helps tremendously in producing stiffness and strength visualizations. Our FEM software provides a wide range of simulation options for controlling the complexity of both modeling and analysis of the system.

VALUE		CLASSIFICATION	
	10	HIGH	
	9	ПІВП	
	8	0000	SURE
	7	GOOD	RES
	6	SUFFICIENT	SEALING PRESSURE
	5	SUFFICIENT	SEAL
	4	INSUFFICIENT	<u> </u>
	3	INSUFFICIENT	

Here above, colors indicate different material properties for each zone of the gasket comparing Athena racing cylinder head gaskets with the ones of our competitors. Parts underlined in red/orange demonstrate that gaskets with the Athena gas stopper exercise higher pressure against the cylinder head and cylinder block, ensuring better sealing, Competitor gaskets without gas stopper reveal lack of sealing (colors green and blue).









MLS

MANUFACTURING PROCESS

1 LASER PROCESS

State of the art laser allows high precision gasket cut from raw material. For specific reinforced materials in-house die cutting machines are used.

2 EMBOSSING

Single gasket layers are embossed as per Athena specific drawing, in order to seal liquid and combustion gas.

3 RIVET ASSEMBLING

Each head gasket layer is assembled and fixed with rivets, for perfect layer alignment.

4 FINISHING

The application of different superficial coatings enables the gasket to better performance, prevent sticking phenomena and enhance high temperature resistance.

Athena MLS gaskets are designed to suit the requirements of today's competition engines offering enhanced sealing compared to the OEM product.

The gaskets are constructed from 2 - 5 layers of high quality stainless and spring steels. These have various types of beading for sealing of the oil and water ways and advanced stopper technology is used to seal the combustion gases around the cylinder hole. Finally a special coating on the gasket surfaces provides sealing against minor imperfections in the sealing faces.





330

COOPER RING GASKET

FEATURES

- → For specific high horsepower applications, engine performance can be significantly improved by using Athena Cooper Ring gaskets, that are supplied with INOX steel rings.
- → This technology outperforms conventional fire ring solutions. Reinforced material M0115 (see features below): asbestos free composite raw material OE approved.
- → Stainless steel ring (AISI 304) separate stainless steel rings assure maximum sealing around cylinder bore also on NOS and/or turbo charges engines where boost is over 2 bars. No head and block machining required.
- → Silicon beading: Silicon-based beading is applied on critical areas to improve sealing around all cooling water and oil passages.

GENERAL INSTALLATION NOTES

ightarrow Be sure the engravings of the ring are placed facing the engine head.

MATERIAL

M0115 MOTOR GASKET

Nominal thickness: 1.20 mm

Other possible thiknesses from 1.00 mm to 2.00 mm

\rightarrow Description

MOTORGASKET M0115 is composed of a pegged steel core. An asbestos-free soft material, which contains a blend of inorganic fillers and a high grade of aramide fibres and NBR as binder, is applied to both sides of the core.

→ Application

MOTORGASKET M0115 is suitable for cylinder head gaskets in internal combustion engines; intake and exhaust manifolds; other sealing areas exposed to high mechanical and thermal stress.

→ Properties

MOTORGASKET M0115 has a good mechanical and thermal stress, conforms well to sealing faces.

MOTORGASKET M0115 is resistant to oils, fuels, mixtures of water and antifreeze or corrosion inhibitors

→ Surfaces

Coloured: Grey Top coating: /

Treatment: For stressed application special coatings are applied, e.g. a PTFE anti-stick coating or a special silicon coating which improves micro-sealing and silicon beading.

PROPERTY/PROCEDURE	RESULT
Weight per surface unit (kg/m²): Thickness of steel core (mm):	3.48 0.20 until 1.30 mm total thickness 0.25 ≥ 1.40 mm total thickness
Stress Relaxation acc. to DIN 52913: 16 h, 175 °C - N/mm ² :	≥ 23
Compressibility and recovery acc. to ASTM F36J Compressibility %: Recovery %:	8-12 ≤ 55
Swelling acc. to ASTM F 146 In IRM 903 oil: Thick.incr. %:	≤ 10
Swelling acc. to ASTM F 146 In fuel B 23°C /5 h Thick.incr. %:	≤ 10
Swelling acc. to ASTM F 146 In water / antifreeze (50:50) Thick.incr. %:	≤ 6
Peak temperature:	400°C
Surface pressure: Maximum at 300°C (N/mm²):	100







COOPER RING MANUFACTURING PROCESS

1 PRESSING PROCESS

Each gasket is pressed to reach the perfect flatness according to the required tolerances.

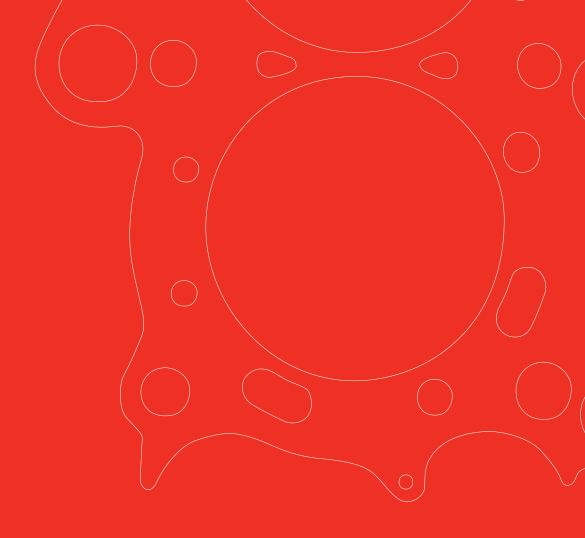
2 SILICON BEADING

This working process adds a silicon bead over specific gasket areas to increase sealing around liquid passages (water and oil).

3 FINISHING

The application of different superficial coatings enables the gasket to better performance, prevent sticking phenomena and enhance high temperature resistance.





Application list

AMC

AUDI / VOLKSWAGEN/SEAT

 BMW

BUIK

CHEVROLET

CHRYSLER

FERRARI

FIAT / LANCIA / ALFA ROMEO

FORD

HONDA

MITSUBISHI

NISSAN

OLDSMOBILE

OPEL / VAUXHALL

PEUGEOT / CITROËN

PORSCHE

RENAULT

ROVER

SAAB

SUBARU

TOYOTA

VOLVO

AMC

CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	TOP END GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD GASKET#	THICKNESS (mm.)	PICTURE
ШШШ									
_	390-401	AMC	70-74	107.95	N.A.	N.A.	338365R	1.0	
	070 401	74.10	70 74	111.25	14.74.	11.7.	338366R	1.0	

AUDI/VOLKSWAGEN/SEAT

CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	TOP END GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD Gasket#	THICKNESS (mm.)	PICTURE
1.781		VOLKSWAGEN GOLF 1.8 8V VOLKSWAGEN PASSAT 1.8 8V VOLKSWAGEN VENTO 1.8 8V	78-UP 92-UP	81		NE	338419R		
1.595	AAM/ABS/ ADZ/ADA	SEAT CORDOBA SEAT IBIZA SEAT TOLEDO 1.8 8V AUDI 80 1.6-1.8 8V	93-UP 91-UP	83	044757-1000R	084750-1051R	338003R	1.4	
1.781	KR PL	VOLKSWAGEN PASSAT 1.8i 16V VOLKSWAGEN GOLF 1.8i 16V VOLKSWAGEN JETTA 1.8i 16V VOLKSWAGEN PASSAT 1.8i 16V SEAT SCIROCCO 1.8 16V SEAT CORDOBA SEAT IBIZA SEAT TOLEDO 1.8 16V	78-UP 85-UP 91-UP	83.8	044744-1000R	084717-1000R	338004R	1.4	
1.800	ADR/AEB/ AFY/ARG/ ANB/APU/	VOLKSWAGEN PASSAT 1.8i 20V AUDI A4 1.8i 20V AUDI A4 1.8i 20V TURBO AUDI A6 1.8 20V	96-05 94-UP 95-UP 95-UP	83	044767-1000R	084767-1000R	338253R	1.4	
	AEB/AJL	AUDI CABRIOLET 1.8 20V VOLKSWAGEN PASSAT 1.8i 20V	97-UP 96-05	83.8			338254R	1.4	
2.792	AES/AFP/ AMY	VOLKSWAGEN SHARAN 2.8 VR6 (1a S.)	-						
2.861	AAA	VOLKSWAGEN GOLF 2.8 VR6 VOLKSWAGEN PASSAT 2.8 VR6 VOLKSWAGEN VENTO 2.8 VR6	92-UP	84.1			338320R	0.65	
	ABV	VOLKSWAGEN CORRADO 2.8 VR6 VOLKSWAGEN GOLF 2.9 VR6	92-UP		044911-1000R	084911-1000R			
2.792	AES/AFP/	VOLKSWAGEN CORRADO 2.9 VR6 VOLKSWAGEN GOLF III 2.8 VR6	91-95 92-97	82.5			338314R	0.65	
2.172	AMY	VOLKSWAGEN GOLFIII 2.9 VR6 VOLKSWAGEN VENTO 2.8 VR6	94-97 92-98	83			338321R	1.65	
2 200	GV/JY/KE/ KF/KG/KH/	AUDI 80 2,2 QUATTRO AUDI COUPE 1,9	01.05	83.5	N. A	NA	330047R	1,	
2.200	KJ/KK/KL/ WB/WC/WE/ WG/WH/WJ	AUDI COUPE 2,1 AUDI GT QUATTRO 2,1 TURBO	81-85	82	N.A.	N.A.	330048R	1.6	

^{*} Please note this application list is only listing the most popular models. For a full list of applications covered by gasktes please check engine #.

N.B: codes starting with 338 refer to MLS gaskets, those beginning with 330 to Cooper Ring gaskets.



BMW

CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	TOP END GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD Gasket#	THICKNESS (mm.)	PICTURE
11111111111	 		89-92	87	042238-1000R	082238-1000R		 	
1.796	M42 B18	318is 1.8 16V	92-94	87	042239-1000R	082238-1000R	338287R	1.6	
			94-97	87	042240-1000R	082240-1000R			
1.990	S14 204 EA	320is 16V			042243-1000R				
2 303	S14 B23 S14 B23 (EVO 1)	M3 16V - M3 (EVO1) 16V	86-91	95	042243-1000R	082243-1000R	330021R	2.0	
	314 B23 (EVO 1)	320i 24V	89-92	84.5	042244-1000R	082244-1000R	330012R	2.0	
2.494	M50 SERIES	520i 24V	07-72	86	042244-1000IX	002244-10001	330011R	1.6	
2.474	E36 E34	520i 24V	92-96	86	042245-1000R	082245-1000R	330013R	2.0	
				87			330014R	2.0	
2.494	M20 SERIES B25	325i 525i 12V	N.A.	85.5	042254-1000R	- 082254-1000R	330015R	2.0	
2.693	M20 SERIES B27	325e-525e-528e 12V	IV.A.	03.3	042255-1000R	002234-100010	33001310	2.0	
2.990	B30	M3 24V	92-01	87.1	042256-1000R		330020R	1.8	
2.990	S50 B30 S52 B32 (EURO ONLY)	M3 24V	92-99	87	0.2200	082256-1000R	338081R	1.8	
3.201	B 32	M3 24V - Z3 24V	92-01	87.1	042257-1000R		330020R	1.8	
3.246	S54 326 S4 S54 B32 S54 B32 (32 6 S4) S54N 326 S4	M3-COUPE CABRIO 3,2 24V Z3 COUPE' ROADSTSTER 3.2 24V	00-UP	87.5	N.A.	N.A.	330037R	1.2	
3.453	M30 B35	635csi-735i	78-80	93.1	042258-1000R	- 082258-1000R	330016R	2.0	
J.40J	M30 B33	000031-7001	80-82	95.6	042259-1000R	002230-1000R	330017R	2.0	
	M52 B25	320i 24V	Up to 09/02	05.4	0/20/0 10005		2200225	1.5	0-0-00-00-00-00-00-00-00-00-00-00-00-00
2.494	M52 B28 M54 B25	325i-330i 24V-320-325-330 Ci 24V	00-02	85.1	042260-1000R	082260-1000R	330022R	1.5	<u> </u>
	M54 B30 M54 256 S5	320i 24V	From 10/02	87.6	042261-1000R		330023R	1.5	0-
	M54 306 S3	325i-330i 24V-320-325-330 Ci 24V	02-UP						[] = 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8
3.982	M60 B40 Right	540i V8 740i V8 530i V8 730i V8	92-01	90.6	042262-1000R	082260-1000R	330024R	2.0	

BMW

CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	TOP END GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD Gasket#	THICKNESS (mm.)	PICTURE
3.982	M60 B40 Left	540i V8 740i V8 530i V8 730i V8	92-01	90.6	042262-1000	082260-1000	330025R	2.0	
4.398	M62 448 S2 M62 B44 TU Right M62 448 S2 M62 B44 M62 B44 TU	535i 540i 735i 740i 840Ci	Up to 09/89	93.6	042263-1000	082262-1000	330026R 330027R	2.0	
4.398	M62 448 S2 M62 B44 M62 B44 TU Right M62 448 S2 M62 B44 M62 B44 TU	535i 540i 735i 40i 840Ci	From 10/89	93.6	042264-1000	N.A.	330026R 330027R	2.0	

BUICK

CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	TOP END Gasket Kit Without Head Gasket#	BOTTOM END GASKET KIT#	HEAD Gasket#	THICKNESS (mm.)	PICTURE
				107.95			338367R		
_	400-455	BUICK	67-76	111.38	N.A.	N.A.	338368R	1.0	

CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	TOP END GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD Gasket#	THICKNESS (mm.)	PICTURE
11111111111		innumumumumumumumumumumumumimumi	immunin	immuni				innunnun	innununununununununununununun
6.000	364 (6.0L) VIN U	-	99-00	103	N.A.	N.A.	330018R	1.5	

^{*} Please note this application list is only listing the most popular models. For a full list of applications covered by gasktes please check engine #.

N.B: codes starting with 338 refer to MLS gaskets, those beginning with 330 to Cooper Ring gaskets.



CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	TOP END GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD Gasket#	THICKNESS (mm.)	PICTURE
6.000	364 (6.0L) VIN U	-	99-00	105.4	N.A.	N.A.	330019R	1.5	
-				103.2	N.A.	N.A.	338380R	0.7	000000000000000000000000000000000000000
-				103.2	N.A.	N.A.	338381R	0.75	000000000000000000000000000000000000000
-				103.2	N.A.	N.A.	338382R	1.0	000000000000000000000000000000000000000
-				103.2	N.A.	N.A.	338383R	1.3	
-	350 Small Block Chevy V8	-	55-91	106	N.A.	N.A.	338384R	0.76	05-80,003-80,003-80,000
-				106	N.A.	N.A.	338338R	1.0	000000000000000000000000000000000000000
-				107	N.A.	N.A.	338339R	1.0	000000000000000000000000000000000000000
-				106	N.A.	N.A.	338385R	1.3	000000000000000000000000000000000000000
-				107	N.A.	N.A.	338386R	1.3	000000000000000000000000000000000000000
-	LT1/LT4 350	_	92-96	102.6	N.A.	N.A.	338299R	1.0	
-	CI V8		72-70	104.4	N.A.	N.A.	338305R	1.0	
-				103.1	N.A.	N.A.	338328R	0.7	00 00 00 00 00 00 00 00 00 00 00 00 00
-	V8 Small Block 262, 265, 283, 302		55-91	103.1	N.A.	N.A.	338327R	1.0	000000000000000000000000000000000000000
-	265, 283, 302, 307, 327, 350, 400	-		103.1	N.A.	N.A.	338329R	1.3	000.00000000000000000000000000000000000
-				104.7	N.A.	N.A.	338291R	1.0	000000000000000000000000000000000000000

CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	TOP END GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD Gasket#	THICKNESS (mm.)	PICTURE
-				104.7	N.A.	N.A.	338330R	1.3	
-				105.7	N.A.	N.A.	338331R	0.7	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
-				105.8	N.A.	N.A.	338292R	1.0	000000000000000000000000000000000000000
-	V8 Small Block 262, 265, 283, 302, -	55-91	106	N.A.	N.A.	338332R	1.9	000000000000000000000000000000000000000	
-	307, 327, 350, 400		33-71	106.7	N.A.	N.A.	338293R	1.9	000000000000000000000000000000000000000
-				106.7	N.A.	N.A.	338333R	1.7	
-				111.1	N.A.	N.A.	338310R	1.0	
-				115.3	N.A.	N.A.	338309R	1.0	
-			N.A.	117.6	N.A.	N.A.	338312R	1.0	
-	BIG BLOCK 396, 402, 427, 454, 502 Mark IV &			111.1	N.A.	N.A.	338288R	1.0	
-	Bow Tie Hi- Perf. 2 Each End Lower 3 Open			115.3	N.A.	N.A.	338289R	1.0	
-				115.3	N.A.	N.A.	338335R	1.3	
-	-			115.3	N.A.	N.A.	338336R	1.9	
_				117.6	N.A.	N.A.	338290R	1.0	
-	LS1/LS6 5.7L	_	N.A.	105.7	N.A.	N.A.	338308R	1.3	
-	& LS2 6.0L			105	N.A.	N.A.	338304R	1.0	

^{*} Please note this application list is only listing the most popular models. For a full list of applications covered by gasktes please check engine #.

N.B: codes starting with 338 refer to MLS gaskets, those beginning with 330 to Cooper Ring gaskets.



CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	TOP END GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD Gasket#	THICKNESS (mm.)	PICTURE
-	LS1/LS6 5.7L & LS2 6.0L	 - -	N.A.	105	N.A.	N.A.	338334R	1.0	
							338342R	1.3	
-	LS1 5.7L	-	97-05	100.2	N.A.	N.A.	338344R	1.0	
-	LS2/3	_	05-11	104.1	N.A.	N.A.	338343R	1.3	
	6.0L/6.2L						338345R	1.0	
-				102.5	N.A.	N.A.	338352R	1.0	000000000000000000000000000000000000000
-	283-350	-	57-96	111.3	N.A.	N.A.	338353R	1.0	0.0000000000000000000000000000000000000
-	LSX 376-L	-	N.A.	104.7	N.A.	N.A.	338354R	1.3	
	LSX 376-R	-	N.A.	104.7	N.A.	N.A.	338355R	1.3	
-	LSX 454-L	-	N.A.	106.7	N.A.	N.A.	338356R	1.3	
-	LSX 454-R	-	N.A.	106.7	N.A.	N.A.	338357R	1.3	
	LS7	-	06-UP	105.7	N.A.	N.A.	338358R	1.3	
	BIG BLOCK M39a6r,k 4 I0V2 &, 4B2o7w,	GEN. IV	55-91	117.6	N.A.	N.A.	338389R	1.15	
-	4T5ie4 ,H 5i-0P2e r f.2 Each End Lower 3 Open	GEN. IV	55-91	117.6	N.A.	N.A.	338390R	1.3	
2.000	-	CHEVROLET COSWORTH VEGA	75-76	91	N.A.	N.A.	338425R	1.0	

CHRYSLER

CC	ENGINE#	MAJOR Applications*		GASKET BORE (mm.)	GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD Gasket#	THICKNESS (mm.)	PICTURE
-	HEMI 5.7L - L	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	02-11	102.8	N.A.	N.A.	338361R	1.0	
	HEMI 5.7L- R	-	02-11	102.8	N.A.	N.A.	338362R	1.0	
	HEMI 6.1L	_	05-11	104.1	N.A.	N.A.	338363R	1.0	
	TIEMI O.TE		03-11	106.3	N.A.	IV-O	338364R	1.0	
				114.3			338307R	1.0	
	361, 383, 400, 413, 426			111.3	_		338306R	1.0	
	& 440			111.3			338377R	1.5	
-			N.A.	112.1	N.A.	N.A.	338300R		
	318, 340	8, 340 360		104.8			338297R		
	& 36U			103.6			338296R	1.0	
	426 Hemi			111.1			338313R		
				108.7			338311R		

FERRARI

CC	ENGINE#	MAJOR APPLICATIONS*	YEAR	GASKET BORE (mm.)	TOP END Gasket Kit Without Head Gasket#	BOTTOM END GASKET KIT#	HEAD Gasket#	THICKNESS (mm.)	PICTURE
5.474		550	96-02	00.5	NI A	N A	338404R	1.5	6:
5.748		575 GT	02-06	90.5	N.A.	N.A.	3384U4R	1.5	

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FIAT / LANCIA / ALFA ROMEO

CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	TOP END GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD Gasket#	THICKNESS (mm.)	PICTURE
1.186	AR 30100	ALFA SUD -ARNA 1.2	72-84	immunu 	inninninninninninnin -		 	``````````````````````````````````````	/mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm
1.286	AR30102 AR30104	ALFA SUD 1.3	77-84						
	AR 30168	ALFA 33 1.4	84-90						
1.351	AR30160 AR30164 AR30168	ALFA SUD 1350	79-84	85.4	010313	-1000R	330008R	1.5	
	AR 30140 AR30146	ALFA 33 1.5	83-89						(65 26 20)
1.490	AR30124 AR30128 AR30146	ALFA SUD 1350	79-84						
				81.5		_		1.8	
1.372	146 A8.000	FIAT PUNTO 1.4 TURBO	89-99	82	011027-1000R		330010R	1.8	
1.372	140 A0.000	TIAL FONTO 1.4 TORBO	87-77	82.5			338006R	1.3	
				02.3			338005R	1.7	
1.600	159 A.000 159B9.000	FIAT PUNTO 1.6	93-99	88	011028	1000P	338251R	1.3	
1.000	176 A9.000	LANCIA DEDRA 1.6 ie	73-77	00	011020	- 100010	338252R	1.7	
	835 A8.000 831 B5.000	LANCIA DELTA 2.0 ie 4WD 8V	87-94	85.5	011020	10000	330039R	1.8	
	831 C5.000 831 C5.046 835 A7.000	DEDRA 2.0 TURBO ie 8V 4X4	07-74	85.3	011030	-1000K	338396R	1.6	
1.995	836 A2.000 836 A3.000 838 A4.000 834 F1.000 834 F2.000	LANCIA DELTA I 2.0 16V HF Integrale LANCIA DELTA I 2.0 16V HF EVO Integrale LANCIA DELTA II 2.0 16V LANCIA KAPPA 2.0 16V TURBO LANCIA NUOVA DELTA 2.0 16V ie	89-96	87	- 0/10/0_1000P	0810/0_1000P	338397R	1.6	
	831 D5.000 831 E5.000 831 E5.046 154 E1.000	LANCIA THEMA 2.0 16V FIAT COUPE 2.0 16V FIAT TIPO 2.0 i.e. 16V Sport FIAT CROMA 2.0 16V	07-70	86	- 041040-1000R 081040-1000R		338398R	0.65	
1.756	124C.000	FIAT 124 SPORT 1.8 FIAT 124 SPYDER (USA) 1.8	72-78 70-82						
1.995	131B2/C4.000	FIAT 131 RACING 2000	72-78 70-82						80000000000000000000000000000000000000
1.585	131B1.000	FIAT 131 SPORT 1600	79-81	85.5	85.5 010556-1000R 3	338412R	1.3		
1.756	828AB1.000	LANCIA BETA 1.8 - COUPE' - SPYDER	72-76						
1.995	828B1.000	LANCIA BETA 2000 R/79	79-82						

FIAT / LANCIA / ALFA ROMEO

CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	TOP END GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD Gasket#	THICKNESS (mm.)	PICTURE
1.585	828B.000 828B4.000	LANCIA BETA 1.6 COUPE' - HPE - R/79 LANCIA BETA 2000 R/79 INIEZ.	76-82 78-82	85.5	010571- 010567-	-1000R	- 338412R	1.3	
1.997	672.04-672.99 323.01 323.03 162.01-323.01 162.01-323.01 N.A.	ALFA 155 (167) 2.0 T.S 16V ALFA 156 (932) 2.0 16V T.S ALFA 156 (932) 2.0 T.S ALFA GTV (916C) 2.0 T.S 16V SPIDER (916S) 2.0 T.S 16V FIAT GRANDE PUNTO S 2000 FIAT PUNTO S 1600	06-	85.8	N.A.	N.A.	338408R 338409R	0.85 1.55	

FORD

CC	ENGINE#	MAJOR Applications*		GASKET BORE (mm.)	GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD GASKET#	THICKNESS (mm.)	PICTURE
1111111111							338270R	1.3	
1.585	LNA LHA LHB	FORD ESCORT -FIESTA 1.6 Turbo ZETEC	N.A.	81	041516-1000R	082536-1000R	338271R	1.6	
							338272R	1.9	
1.597	-	FORD FIESTA ST	13-	85.5	N.A.	N.A.	338403R	1.35	
							338042R	1.3	
				92.5			338045R	1.15	
1.997	COSWORTH 2,0L DOHC YB	ESCORT RS COSW. 16V	N.A.		N.A.	082521-1000R	338048R	1.0	
1.77	/SOHC OHC- NEP	ESCONT NS COSW. TOV			IV.A.	082321-1000K	338041R	1.3	0.0000000000000000000000000000000000000
				93.5			338044R	1.15	
							338047R	1.0	

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FORD

CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	TOP END GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD Gasket#	THICKNESS (mm.)	PICTURE
11111111111			 - -	94.5	innummunummun -	innummini - 	338040R	1.3	0,000,000,000
	OOGWODTU						338043R	1.15	
1.997	COSWORTH 2,0L DOHC YB /SOHC OHC- NEP	ESCORT RS COSW. 16V	N.A.	91.4	N.A.	082521-1000R	330029R	1.3	
				92.1			330030R	1.3	
				72.1			330046R	2.0	
	EDBA EDBB EDBC EDBD						338267R	1.0	
1.996	EDDB EDDC EDDD EDDF	FORD FOCUS 2.0 16V ZETEC	-	86.2	041511-1000R	082591-1000R	338268R	1.3	
	NGA NGB NGC NGD						338269R	1.6	
2.298	2.3L SOHC	RANGER-MAVERICK	-	98	N.A.	N.A.	338301R	1.0	
2 522	HUBA HUWA	FOCUS II 2.5 ST FOCUS II 2.5 RS	05- 09-	83	041518-1000R	001510 1000D	338284R	1.2	
2.522	HYDB JZDA	FOCUS II 2.5 RS500	10-	84	041316-1000K	061516-1000K	330045R	1.6	
	302 351W SVO w/ Valve Pockets			10/ 1	N.A.		338302R	1.0	
	Yates Style Right Side	-	-	104.1	N.A.	N.A.	338303R	1.0	
				104.6			338295R	1.0	
	289 302			40/0			338337R	0.7	
-	351W Non SVO	-	-	104.8	N.A.	N.A.	338294R	1.0	
				105.5			338379R	1.0	
-	4.6/5.4-Left (V2)	-	91-04	92.2	N.A.	N.A.	338346R	1.0	

FORD

CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD Gasket#	THICKNESS (mm.)	PICTURE
-	4.6/5.4-Right (V2)	-	91-04	92.2	N.A.	N.A.	338347R	1.0	
-	4.6/5.4-Left (V2)	-	05-10	92.2	N.A.	N.A.	338348R	1.0	
-	4.6/5.4-Right (V2)	-	05-10	92.2	N.A.	N.A.	338349R	1.0	
-	5.0-Left COYOTE	-	11-UP	95.3	N.A.	N.A.	338351R	1.55	
-	5.0-Right COYOTE	-	11-UP	95.3	N.A.	N.A.	338350R	1.55	
	F /20///0	_	40.00	111.7			338359R	4.0	
-	F 429/460		68-88	114.3	N.A.	N.A.	338360R	1.0	

HONDA

CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD Gasket#	THICKNESS (mm.)	PICTURE
1.595 1.683 1.797	B16A2-A3 B17A1 VTEC B18C1-C5 VTEC	CIVIC-CRX 1.6i vtec 16V	99-00	81.5	042723-1000R			0.85	
				81.5			338402R	0.6	
				82			338086R		
1.797	B18C1 C5 VTEC	INTEGRA 1.8i 16V	99-00	83	042723-1000R	082723-1000R	338087R	0.85	
				84			338088R	0.65	
				85			338089R		

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HONDA

CC	ENGINE#	MAJOR Applications*		GASKET BORE (mm.)	TOP END GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD Gasket#	THICKNESS (mm.)	PICTURE
11111111111				81	111111111111111111111111111111111111111		338090R	111111111111111111111111111111111111111	
				82			338092R	0.85	
1.797	B18A Hybrid non VTEC Block w/VTEC Head	-	N.A.	83	N.A.	N.A.	338093R		
				84			338094R		
				85			338096R	0.75	
				81			338098R		
				82			338100R		
1.834	B18A1 DOHC Non VTEC	INTEGRA 1.8i 16V	90-93	83	042735-1000R	082723-1000R	338101R	0.85	
				84			338102R		
				85			338103R		
1.972	B20B4 B20Z2	CRV 2.0i 16V	97-01	85	042718-1000R	082723-1000R	338104R	0.85	
		CIVIC-CONCERTO 1.4	87-97	76			338107R		
1.343	D13B1-B2 D15B1-B2- B6-B7-B8		88-95	77			338108R		
1.493 1.590	D16A6-A7 D16Z1 D16Z2	CIVIC CONCERTO 1.5	87-97 88-95	78	042714-1000R	082714-1000R	338109R	0.85	
		BALLADE CIVIC CONCERTO CRX INTEGRA 1.6	87-97 88-95	79			338110R		
		CIVIC 1.5i vtec 16V (91)	91-95	76			338112R		
1.493 1.590	D15Z1 D16Y5 D16Y8	CIVIC 1.5i vtec 16V (96)	96-00	77	042719-1000R	082716-1000R	338113R	0.85	
		CIVIC-CRX-HR-V 1.6i vtec 16V	91-95 96-00	78			338114R		

HONDA

CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	TOP END GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD Gasket#	THICKNESS (mm.)	PICTURE
1.997	F20C1-C2 / F22C1 DOHC VTEC 2,0L		99-03	89	042736-1000R	082736-1000R	338124R	0.85	
1.998 2.354	K20A1 K20A2 K20A3 K24A	CIVIC TYPE-R INTEGRA TYPE-R RSX-S CIVIC SI ACCORD	01- 01- 01-04 01-03	88.5	N.A.	N.A.	338411R	0.85	

MITSUBISHI

CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	TOP END GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD Gasket#	THICKNESS (mm.)	PICTURE
							338024R	1.0	
				85.3			338020R	1.15	
							338016R	1.30	
							338025R	1.0	
				0/2			338021R	1.15	
		LANCER 2.01 GDI		86.3			338017R	1.30	
1.997	4G63	EVO IV÷VIII	96-UP		N.A.	N.A.	330038R	1.30	
				87.3			338018R	1.30	
				87.5			338026R	1.0	
				87.5			338022R	1.15	
				87.5			330042R	1.20	
				88.3			338023R	1.15	

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MITSUBISHI

CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	TOP END GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD Gasket#	THICKNESS (mm.)	PICTURE
1.997		LANCER 2.01 GDI		88.3			338027R	1.0	
1.777	4G63 EVO IV÷VIII	EVO IV÷VIII	96-UP	88.3	- N.A.	N.A.	338019R	1.30	
1.997	4G63T	LANCER 2.0 EVO IX	05-07	86.3	N.A.	N.A.	338421R	1.0	
1.998	4B11T	LANCER 2.0 EVO X	07-UP	87.5	N.A.	N.A.	338422R	1.0	

OLDSMOBILE

CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	TOP END GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD GASKET#	THICKNESS (mm.)	PICTURE
11111111111							 		
-	330-400	OLDSMOBILE	64-69	104.1	N.A.	N.A.	338369R	1.0	
	403	OLDSMOBILE	77-79	104.1	N.A.	N.A.	338370R	1.0	
-	455	OLDSMOBILE	68-76	104.1	N.A.	N.A.	338371R	1.0	

Athena 338146 FR



NISSAN

CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	TOP END GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#		THICKNESS (mm.)	PICTURE
1.809	CA18 DE	BLUEBIRD 1.8i 16V	83-90	85	012439-1000R		338135R	1.30	
	CA18DET TURB0	200-BLUEBIRD-SUNNY 1.8 16V TURBO	88-93						
2.498	RB25 2,5L	PATROL 89-93	89-93	87	N.A.	N.A.	338144R	1.30	
2.470	6cyl. Inline	SKYLINE 89-93 SKYLINE GT-R 89-02	89-02	07			338414R	1.50	
	RB26 2,6L 6cyl. Inline	SKYLINE 89-93 SKYLINE GT-R 89-02		87.5			338146R	1.20	
2.568			89-93 89-02	88	N.A.	N.A.	338146FR	1.20	
				87.5			338315R	1.50	
		- 100-200-PRIMERA-SERENA 2.0i 16V NX 2000 91-93 INFINITY G20 91-02		88.5			338150R	0.85	
1.998	SR20DE/DET DOHC 16V. 2,0L no extra oil		92-96		012420-	-1000R	338415R	1.50	
1.770	holes/ with 2 oil holes		72-70	87.5		-100010	338151R	1.50	
							338152R	1.0	
3.799	VR38DETT	GT-R 3,8L V6	08-	100.5	N.A.	N.A.	338406R (RIGHT SIDE)	0.95	
		3. NO,0E 10		. 50.0			338407R (LEFT SIDE)	0.95	
4.759	TB48DE	PATROL DOHC Y61	01-09	102.5	N.A.	N.A.	338426R	1.2	

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OPEL / VAUXHALL

CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	TOP END GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD Gasket#	THICKNESS (mm.)	PICTURE
1.598	A16LEL A16LER Z16LET Z16LEL Z16LER Z18LET	ASTRA CORSA INSIGNIA MERIVA 1.6 TURBO	07-UP	80	043591-1000R			1.0	
1.796	Z18LER Z18XER	ASTRA INSIGNIA 1.8 SIGNUM VECTRA ZAFIRA 1.8	05-UP	80	043592-1000R	083592-1000R	338286R	1.0	
1 070	CIH-E 2,0L			97	0.40500 40545	000500 40000	338239R	1.45	
1.979	CIH-S 2,0L		77-88	98	043539-1051R	083520-1000R	338298R	1.5	
1.897	19N (CIH)	ASCONA B KADETT C MANTA B REKORD C-D 1.9 8V	76-81	97	043522-1000R	083520-1000R	338340R	1.5	
	X20XEV	ASTRA CALIBRA VECTRA ZAFIRA 2.0i 16V	95-00	87.5	043560-1000R	083558-1000R	338260R	1.9	
							338058R	1.3	
1.998							338060R	1.15	
1.770	NZONE V						338062R	1.0	
				88.5			338059R	1.3	
				86.3			338061R	1.15	
				88.5			338316R	1.3	
1.998	C20XE	ASTRA CALIBRA KADETT VECTRA 2.0i 16V	91-	87.5	043559-1000R	083559-1000R	338317R	1.3	
							338318R	1.9	

PEUGEOT / CITROËN

CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD Gasket#	THICKNESS (mm.)	PICTURE
		PEUGEOT 106 PEUGEOT 1.6i PEUGEOT 16V Dal 1996- CITROEN SAXO 1.6i PEUGEOT 16V					338008R	1.0	
1 507	TU5JP4		93-03	80	0,40,400,4000	000//0 4000D	338010R	1.3	
1.587	(16V) CIT		73-03	80	043682-1000R	083663-1000R	330006R	1.0	
							330007R	1.4	
	XU9J4/J4Z	PEUGEOT 309 1.9 GTI 16V	90-93	84			338399R	1.3	
1.905	XU9J4/J4Z	PEUGEOT 405 1.9 MI 16V 4X4	90-93		043653-1099R	083650-1051R			
	XU9J4	CITROEN BX 1.9 GTI 16V	87-93				338400R	1.6	
		PEUGEOT 206 2.0 RC 16V	03-						
	EW10J4S EW10J4/L4	PEUGEOT 206 2.0i 16V	00-12	_			338265R	1.0	
1.997	EW10J4/L4	PEUGEOT 206 2.0i 16V GT-S16	99-00	86	043676-1099R	083676-1000R			
	EW10J4	CITROEN C4 2.0 16V	04-	_			338266R	1.3	
_		CITROEN C4-Coupé 2.0i 16V	04-10						
	XU10J4	PEUGEOT 306 2.0i Coupé S16-GTI 16V	93-95				338263R	1.3	
1.998		PEUGEOT 405 2.0 T16 4X4 16V	93-95	87	043656-1099R	083650-1051R			U
	XU10J4D/Z	CITROEN ZX 2.0i 16V	92-97				338264R	1.6	

PORSCHE

CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	TOP END GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD GASKET#	THICKNESS (mm.)	PICTURE		
11111111111											
2.990	M 44.43	968 3.0	91-95	105	NI A	N.A.	330043R	1.6			
	M 44.44	968 Cabriolet 3.0	91-95	105	N.A.						

^{*} Please note this application list is only listing the most popular models. For a full list of applications covered by gasktes please check engine #.

N.B: codes starting with 338 refer to MLS gaskets, those beginning with 330 to Cooper Ring gaskets.



RENAULT

CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	TOP END GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD Gasket#	THICKNESS (mm.)	PICTURE
		R9 1.4 R11 1.4 R5 1.4 SUPERCINQUE 1.4 R19 1.4 R21 1.4 R5 TURBO 1.4 L		77	 - -	083727-1000R	330005R	1.8	
1.397	840 726, C6J 750		81-85	77	0.40500 40000		338249R	1.8	
				77.5	0.0720 700011		330009R	1.8	
				78			338250R	1.8	
1.783	F4P 1,8L	LAGUNA MEGANE 1.8i 16V	99-03	83	043762-1000R	083758-1000R	338245R	0.85	
		CLIO 2.0i 16V LAGUNA 2.0i 16V MEGANE 2.0i 16V	99-03				338246R	0.85	
1.998	F4R 2,0L			84.5	043762-1000R	083758-1000R	338375R	1.0	
							338376R	1.3	
							338256R	1.6	
1.765	F7P	CLIO R19 1.8i 16V CLIO WILLIAMS 2.0 16V	91-96	83	043746-1000R	083733-1000R	338247R	1.3	
1.765	F7R		71-76	84	U43/46-1UUUR	063/33-1000R	338248R	1.3	

ROVER

CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	TOP END GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD Gasket#	THICKNESS (mm.)	PICTURE
1.590	D16A6 D16A7	216-416 1,6i 16V	89-96	79	042714-1000R	082714-1000R	338110R	0.85	

SAAB

CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD GASKET#	THICKNESS (mm.)	PICTURE
1.598	A16LEL A16LER Z16LET Z16LEL Z16LER Z18LET	SAAB 9-5 1.6 TURBO	10-UP	80	043591-1000R	083591-1000R	338286R	1.0	

SUBARU

CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#		THICKNESS (mm.)	PICTURE
1111111111		FORESTER IMPREZA LEGACY 2.0i 16V (97)	92-00	94	015411-1099R		338001R	1.3	
1.994	EJ20-GN (EJ27) EJ20EN SOHC						338002R	1.0	
				93.5			330041R	1.2	
	7 EJ25 IMPREZA LEGACY OUTBACK 2.5i 16V		98-03	100	015414-1099R	338235R	1.0		
						338255R	1.3		
2.457						330040R	1.2		
2.407						338325R	1.5		
				102.3		338372R	1.0		
							338405R	1.3	

^{*} Please note this application list is only listing the most popular models. For a full list of applications covered by gasktes please check engine #.

N.B: codes starting with 338 refer to MLS gaskets, those beginning with 330 to Cooper Ring gaskets.



TOYOTA

CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	TOP END GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD Gasket#	THICKNESS (mm.)	PICTURE
	2JZ-GE 3,0L 2JZ-GTE 3,0L	SUPRA 3.0 24V	93-UP	87.7	N.A.	N.A.	338204R	1.0	
2.997				87			338416R	1.5	
				0,		NE	330044R	1.6	
		CELICA MR2 2.0i 16V TURBO					338212R	1.0	
1.998	3S-GE 2,0L 3S-GTE 16V. TURBO 2,0L		89-97	07	014435-1000R		338257R	1.2	
1.770			87-77	87			338326R	1.3	
							338258R	1.4	
		CARINA COROLLA SPRINTER 1.6i	84-92	87	014438-1000R		338213R	1.0	
1.587	4A-GE 1,6L 4A-GEC 1,6L			83			338214R	1.0	
1.307							338323R	1.3	
							338324R	1.9	
1 000	4E-FE	000011443		B5 5	014425-1000R		338374R	0.85	
1.332	TURBO 1,4L	COROLLA 1.3	92-97	75.5			338007R	1.2	
1 (0)	5E-FE TURBO 1,4L	COROLLA PASEO TERCEL 1.3	92-97	BE -			338011R	1.4	
1.496				75.5	014461-	-1000R	338259R	1.9	
4.477	1FZ-FE	LAND CRUISER 80 24V (FZJ80)	92-97	103	N.A.	N.A.	N! 338423R	1.15	

VOLVO

CC	ENGINE#	MAJOR Applications*	YEAR	GASKET BORE (mm.)	GASKET KIT WITHOUT HEAD GASKET#	BOTTOM END GASKET KIT#	HEAD GASKET#	THICKNESS (mm.)	PICTURE
2.316	B230A B230E B230F B230FT	244-245 2.3i	84-86	97		084812-1000R		1.15	
2.316	B23 A/E/ ET/F/FT B230 E/ET/F// FB/FD/FK/ FT/G/GK/GT/K B234F/G	240-242 2.3 GLE	78-92	97.1	044815-1000R	084812-1000R	330028R	2.0	
2.521	B5254 T	C30 – T5 2521cc. S40 II T5 V40 – T5 V50 – T5 V70 – 2.5 T S80 – 2.5 T	04-12	83	N.A.	N.A.	338284R	1.2	

^{*} Please note this application list is only listing the most popular models. For a full list of applications covered by gasktes please check engine #.

N.B: codes starting with 338 refer to MLS gaskets, those beginning with 330 to Cooper Ring gaskets.



GASKET INSTALLATION NOTES

This leaflet is to aid the purchaser of Athena MLS gaskets. The values below are not a substitute for a professional engine builder experience with particular applications. Always seek advice from a professional engine builder if in doubt.

→ General Installation Notes

- 1. Carefully clean and degrease the block deck and cylinder head sealing faces.
- 2. The sealing faces need to be checked for flatness and surface finish. The specifications for these are below.

IT IS VERY IMPORTANT FOR GOOD SEALING THAT THESE SPECIFICATIONS ARE ADHERED TO.

If the sealing faces are out of specification, then the block or cylinder head needs to be machined to suit by a suitable engine builder. Excess machining will affect the compression ratio, piston to valve clearance and camshaft timing on OHC engines. Therefore the engine manufacturer's limits on cylinder head thickness should be observed.

- 3. If machining work has been carried out, the block or cylinder head needs to have any sharp edges and burrs removed and washed clean of any debris.
- 4. Dirt, oil and corrosion should be cleaned out from the cylinder head bolt holes in the block.

IT IS IMPORTANT FOR THESE THREADS TO BE CLEAN OR THE CORRECT BOLT PRELOAD WILL NOT BE ACHIEVED WHICH WILL RESULT IN GASKET FAILURE.

5. Lightly oil the cylinder head studs/bolts and screw them by hand into the block until snug. Using a steel rule, measure the height of the stud/bolt length out of the block. All lengths should be the same (unless different length studs/bolts are used). Longer lengths may indicate that threads are not clean. Inspect threads and re-clean if necessary so that all stud/bolt lengths are the same.

FAILURE TO DO THIS MAY MEAN THAT SOME OF THE STUDS/BOLTS DO NOT HAVE FULL THREAD ENGAGEMENT AND DAMAGE TO THE BLOCK MAY OCCUR DURING TIGHTENING OR ENGINE RUNNING.

Remove studs/bolts and clean after checking installed length.

- 6. Check that sealing surfaces and threads are all clean, dry and free of debris/burrs and sharp edges. If cylinder head studs are being used, install them as per manufacturer's instructions. Centre the MLS gasket on the block and gently lower over any locating dowels ensuring that the coating on the gasket does not get scratched.
- 7. Gently lower the cylinder head onto the block making sure that no debris falls onto the gasket and that the coating on the gasket does not get scratched.

8. Install nuts/bolts as per manufacturer's instructions. Pay attention to any lubrication instructions provided and tightening torques or sequences.

FAILURE TO DO THIS MAY PREVENT THE FULL STUD/BOLT PRELOAD BEING ACHIEVED WHICH WILL RESULT IN GASKET FAILURE. AFTER EVERY HEAD DISMANTLING PROCESS, IT IS STRONGLY SUGGESTED TO USE NEW BOLTS.

- 9. Re-install any other components then refill engine oil and coolant systems. Check for any leaks and investigate if found.
- 10. Start engine and allow it to reach operating temperature. Check for any leaks. If found, stop the engine. Allow cooling and investigate.
- 11. After warm up, if no leaks are found, it may be necessary to re-torque the cylinder head studs/bolts. Check with the manufacturer's instructions.

→ Specifications

There should be no scratches, gouges, pitting, corrosion or cracks on the sealing surfaces as these all present a leakage path. For sealing surfaces that are to be machined the following maximum values for finishing of sealing surfaces should be observed:

Rz 11um

Rmax 15µm

Wt 8 - 10 µm

These values can be measured with a surface finish probe such as a "Mitutoyo Surftest".

The following Ra values are roughly equivalent to the preceding values achieved in practice with machines from Rottler, Robbi, Serdi, etc:

Ra 0.8µm for vertical machining (with cutting tips)

Ra 1.6µm for surface grinding

These values are given for use with a surface finish comparator such as those produced by "Flexbar" etc.

MAXIMUM VALUES FOR OUT-OF-FLATNESS:

Using a straightedge and feeler gauges the maximum gap in the longitudinal direction is:

For a length of 100mm, 0.03mm maximum

For a length of 400mm, 0.05mm maximum

The maximum gap in the transverse direction for a length of 100mm, 0.03mm

OVERALL IT IS BEST TO TRY TO ACHIEVE THE FLATTEST SEALING SURFACES POSSIBLE. THIS WILL ENSURE THE BEST SEALING WITH AN MLS GASKET.

POWERTRAIN REQUIREMENTS

Engine specification + Technical data

Date:		
Customer:		
Contact:		
Sample Gasket Information:		
Gasket MFG:	Make:	Model:
Additional Information:		
Engine specifications:		
Engine Make:	Model:	Engine Year Range:
Engine Code:	Displacement (cc):	
Engine Cylinders:	Cylinders Per Head Gasket:	
Block Material:	Cyl. Head Material:	
Max RPM:	Max HP:	
Cylinder Bore (mm):	Compression Ratio:	
Number of Valves per Cylinder:	Engine Cooling System:	
Cylinders Distance (mm):	Cylinder Head Bolt Diameter:	
Engine Use:		
Circle Track Drag Race	☐ Marine ☐ Street/Strip	
Off-road Rally	☐ Road Race ☐ Other (please	e specify):
Aspiration: Nitrous N	laturally Aspirated Turbocharged	
Fuel Type: Gasoline D	Diesel Alcohol Nitromethane	Others:
Requested Gasket Specifications:		
Gasket Thickness (mm):		
Gasket Bore (mm):		
, ,	cooper Ring Other (please specify):	
Gas Stopper: Yes N		
Gasket Direction: Right L		me
Estimated Units (Voar: Voar 1	Voor 2: Voor 2:	Voor 4:
Main Applications:	Year 2: Year 3:	1 Cai 4.
viairi Applications.	··	
Notes:		
Athena Sales Approval:		







Article 1 **CONTRACT PROVISIONS**

1.1. The present general conditions, exception made for any written derogation/waiver, shall regulate all present and future contracts of sale between the parties. Any general conditions of the purchaser shall not apply to any relationship between the parties if not expressly accepted

Nevertheless, in this case, exception made for any written derogation/waiver, the general conditions of the purchaser shall not prejudice the efficacy of the present general conditions and shall have to be coordinated therewith.

- 1.2. The reference that may be made to commercial terms (Ex Works, FOB, CIF, etc.) is understood to be made according to the Incoterms of the International Chamber of Commerce in the text in force at the moment of entering the contract.
- 1.3.All contract of sales between the parties as well as the present general conditions, shall be governed by the Italian law and in particular by the Uniform Law on international sale of goods, ratified by the Law of 21.6.1971, as well as the Uniform Law on the formation of contracts for the international sale of goods ratified on the same day. Any derogation or reference made by the parties to specific articles of the Italian law do not imply an exclusion of the enforcement of the Uniform Laws hereinabove, to the extent of their accordance with the contractual discipline 1.4. The adhesion to the present general conditions, as well as all subsequent contracts and behaviour of the parties regulated hereby, if not otherwise agreed upon in writing, do not imply the granting to the purchaser of any exclusive right, the existence of any distributorship relation, commission or mandate, with or without agency, nor the granting to the purchaser of the right to use, in any form, the trade-marks or distinctive signs of the purchaser.

Article 2

EXECUTION AND OBJECT OF THE CONTRACT

- 2.1. No offer made by agents, representatives and commercial intermediaries of Athena S.p.A. shall be binding if not confirmed by Athena itself.
- 2.2. During negotiations, the mere sending of the present general conditions shall not imply the acceptance of any offer; nevertheless the general conditions substitute and cancel any general conditions previously proposed by one of the parties.
- 2.3. The sending by Athena of a price-list or descriptive material of the product not expressly bearing the diction "offer" or an equivalent one, shall not be considered as a proposal.
- The diction "not binding", "if available" or similar ones inserted by Athena in an offer shall not bind the seller to the terms of the offer even in case of acceptance of said offer by the purchaser, exception made for subsequent written confirmation or conformable execution by Athena. Athena's offer shall be considered firm or irrevocable only if qualified as such in writing by Athena and if containing a validity term of the clause.
- 2.4. The acceptance of the contract by the purchaser, however effected, shall involve its adhesion to the present general conditions. In case Athena issues an order confirmation, even after entering the contract, it shall be presumed that the terms of the contract correspond to the terms of the order confirmation, except if the purchaser immediately communicates in writing
- 2.5. The acceptance, with no expressed reserves by the purchaser of non conformable products for type or quantity shipped different from the terms contained in the purchaser's request, shall imply acceptance by the latter of both the supply and the conditions proposed by Athena. The reserves hereinabove (even if formulated as specifications or modifications of the delivery conditions) shall have no force if not given in writing by the purchaser, immediately after receiving the merchandise.
- 2.6. All recordings and registrations requested by the state of each party or in the country of destination of the goods, in order to give full efficacy to the contracts governed by the general conditions hereinabove or to one of their clauses, shall have to be carried out by the purchaser at its own care and charge.

Article 3

SAMPLES, TECHNICAL DRAWINGS AND DOCUMENTS

- 3.1. It is agreed that weights, dimensions, capacities, prices, performances, colors and other data contained in catalogs, prospects, circulars, advertisements, illustrations, price-lists or other illustrative Athena's documents, as well as the characteristics of samples and models sent by Athena to the purchaser, shall all constitute an approximate guide only. These data shall have binding value only if expressly mentioned as binding in the offer or in the written confirmation
- 3.2. Unless otherwise agreed upon in writing, in case the offer or the acceptance of the purchaser refers to a sample offered by Athena, the latter shall be deemed committed to the characteristics of the sample only within the limits indicated in art. 3.1.
- 3.3. In case Athena bases its supply to a sample given by the purchaser, it shall be deemed responsible - unless otherwise agreed upon in writing - for the compliance of its services (within the limits set forth in art. 3.1.) only with the apparent characteristics of the sample.
- 3.4. Any technical drawing or document enabling the processing or assembling of the products sold or of parts of them given to the purchaser, whether before or after entering the contract, shall remain exclusive property of Athena. The drawing or documents hereinabove shall not be used by the purchaser nor copied, reproduced or transmitted to third parties without the Athena's consent.

Article 4 WARRANTY

- 4.1. Save as in this general conditions expressed and unless otherwise agreed upon in writing from time to time, Athena shall guarantee the conformity of the supplied products to what expressly agreed. The warranty for defects shall be limited to the defects of products deriving from defects in planning, material or manufacturing attributable to Athena and shall not be valid in absence of the purchaser's proof of its correct use, maintenance and conservation and of no modification or repair to the products without Athena's consent.
- 4.2. The warranty shall have a limited duration of 12 months, beginning from the date of delivery and shall be subject to the regular claim made by the purchaser according to the following article, as well as the written request to the seller to carry out a warranty intervention. In order to comply with the request hereinabove, the Athena shall be committed (at its own option), within a reasonable period of the time according to the extent of the claim, alternatively:
- a) to supply the purchaser with products of the same kind and quantity of those proved defective or not in compliance with the agreement, free of charge and freight. In this case, Athena shall have the right to demand, at the expenses of the purchaser, the return of the defective goods, which become its own property;
- b) to repair, at its own expenses, the defective product or modify the product not in compliance with the agreement, carrying out said operation where the products are located or in its own factory. In these cases, all costs relating to the transportation of the products shall be at the purchaser's charge;
- c) to pay compensation for damages to the purchaser by crediting the purchaser an amount equal to the cost of repairing or modifying the products in its own factory;
- d) to declare in writing the termination of the contract, offering to refund the price paid against the return of the supplied products.

Except for fraud or gross negligence of Athena, any compensation for damages to the purchaser shall not exceed the invoiced price of the claimed products.

- 4.3. All "Racing" products designed for competition are sold without any express or implied warranty and Athena declines any responsibility.
- 4.4. The warranty hereinabove shall absorb and substitute the legal warranty for defects and lack of compliance and exclude any other seller's responsibility, however originated by the supplied products; in particular, the purchaser shall have no right to put forth any other claim for damages, reduction of the price or resolution of the contract. Upon the expiry of the warranty, no request can be made to Athena.

Article 5 **CLAIMS**

- 5.1. The provisions of the Law of 21.6.1971, mentioned in art. 1 still remaining in force:
- a) all claims regarding quantity, weight, color, or quality defects or lack of compliance that the purchaser could notice at the moment of receiving the goods, shall have to be carried out by the purchaser within a short time from the moment the goods reached their destination, however, under penalty of forfeiture, not beyond 15 days from said moment;
- b) all hidden defects and non-conformities (more precisely all non-visible defects on the basis of the verification demanded to the seller by law and by the paragraph hereinabove) shall have to be denounced within a short time from their discovery and, however, under penalty of forfeiture, not beyond 12 months from the date of delivery.
- 5.2. All claims shall be sent via registered letter addressed to Athena and shall indicate in detail all defects or non conformities. Furthermore, they shall contain a cost estimation for repair or modification of the products on the spot, whenever possible. In absence of the requisites hereinabove, no claim shall be effective.
- 5.3. Should the claim be found groundless, the purchaser shall have to refund Athena with all the expenses made for the investigation (trips, appraisals, etc.). The same applies in the event that the claim result only partially grounded, up to a percentage not higher than 30% of the claim originally made.
- 5.4. Items returned for mistaken orders are subject to a 15% re-stocking fee to be deducted from the credit note, with a minimum charge of 20€.

Article 6

TECHNICAL SPECIFICATIONS AND MANUFACTURER'S RESPONSIBILITY

- 6.1. Being stated that, as far as the characteristics of the products are concerned, Athena shall follow the laws and technical rules in force in Italy and the purchaser shall assume the whole risk of any difference between the Italian provisions and the provisions of the country of destination of the products, holding Athena harmless.
- 6.2. Athena shall be responsible for damages to both persons and property caused by the products sold only in case of gross negligence in manufacturing the products hereinabove is proved; in no case shall Athena be deemed responsible for indirect or consequential damages, loss of production or lack of profit.
- 6.3. Exception made for the provisions hereinabove, the purchaser shall hold Athena harmless in case of third parties' actions based on responsibilities originated by the products sold to the purchaser and shall pay compensation for the damages resulting from such actions. Athena shall have the right to involve the purchaser who, for its part, shall take all necessary steps to intervene, in any legal action brought by third parties in connection with the products supplied.



Article 7 **DELIVERY**

7.1. If not otherwise agreed upon in writing, any sale shall be deemed to be Ex Works, even if expressly agreed upon that the shipment (or part of it) shall effected by Athena; in this case, the latter shall act as agent of the purchaser, being agreed that the transportation shall be done at the risk and charge of the purchaser.

- 7.2. In case of delayed delivery, the purchaser shall have the right to cancel the undelivered part of the order only after giving notice thereof to Athena by means of a registered letter with return receipt and after having granted Athena a period of 15 working days beginning from the receipt of such notice, within which Athena shall have the possibility of delivering all the products specified in the request and not yet delivered. However, any responsibility for damages caused by delay or lack of delivery, both total or partial, shall be excluded.
- 7.3. If not otherwise agreed upon, the Ex Works delivery of the products shall take place by means of a written notice thereof (even by telex) to the purchaser that the products are at its disposal; the purchaser shall have a period of time of 3 days from the sending of such notice to take delivery of the products.
- 7.4. Should the purchaser not take delivery of the merchandise within the terms set forth in the paragraph hereinabove, the purchaser shall have to reimburse all storage charges to Athena fixed in a lump sum equal to 10% of the amount of the invoice concerning said products for each week of delay. Furthermore, upon the expiry of a 30 days term, Athena shall have the right to sell the products on behalf of the purchaser, at any price, deducting from the return the whole amount due (regardless to the payment terms agreed upon), as well as any expenses home thereof

Article 8

PAYMENT

- 8.1. Unless otherwise agreed upon in writing, payments shall be made at time of delivery or following the terms and conditions set forth from time to time in the offer. In case of payment by letter of credit, it shall have to be opened within a short time from the entering of the contract in the easiest form and in accordance with the provisions of the contract and shall have to be irrevocable and confirmed by a leading Italian bank. Any payment made to agents, representatives or commercial intermediaries of Athena shall not be deemed to have been carried out until the relevant sums are collected by Athena.
- 8.2. Any delay or irregularity in the payment shall grant Athena the right to suspend deliveries or to terminate the outstanding contracts even if not relevant to the payments at issue, as well as the right to claim damages. However, the seller shall have the right, beginning from due date of the payment, with no need for any intimation to pay, to obtain interests for delayed payment corresponding to the discount rate of the country of the seller increased by 7 points.
- 8.3. The purchaser shall be bound to fulfill its obligations of entire payment even in case of claims or controversy. In case of disputed amounts, the purchaser may, at its option, deposit the sums object of the controversy in an Italian bank until the controversy has been settled, binding the bank to transfer said sums to Athena should the controversy be settled in its favor. No compensation with any credit however arisen towards Athena shall be accepted.

Article 9

RESERVATION OF TITLE

- 9.1. Should the payment be made in whole or in part after delivery, the delivered products remain property of the seller until the payment obligations have been entirely fulfilled, within the limits of the law of the country where said products are located.
- 9.2. The purchaser shall have the obligation to take all necessary steps to constitute, in the country where the products are located, a valid property reservation in the most extensive form permitted or to create a similar form of guarantee in favor of Athena.

Article 10

FORCE MAJEURE

- 10.1. Should fires, collapses, floods, lack of supplies, transportation difficulties, strikes, lockouts or any events beyond control of the respective parties hinder or sensibly reduce the production in the factories of one of the parties, or prevent the transportation between the factories and the place of destination of the products, the injured party shall have the right to obtain a prorogation of the delivery or collection terms of the products of 45 days, provided that timely notice of such event of force majeure is given to the other party. The prorogation term may be extended in the most critical cases to 90 days.
- 10.2. Upon the expiry of the terms hereinabove in the continuation of the event of force majeure, the other party shall have the right to terminate the contract by giving written notice thereof to the defaulting party by registered letter with return receipt. The defaulting party shall in this case have no obligation to pay damages.
- 10.3. Should the fulfillment of Athena's commitments, owing to any reason unforeseeable by an entrepreneur of the field with normal experience, have become before their fulfillment excessively onerous compared with the contractual obligation originally agreed upon, such as to modify the ratio by over 20 per cent, Athena shall have the right to request a revision of the contractual conditions or, failing such revision, to terminate the contract. In case of termination, all expenses borne by the purchaser for terminating the contract, shall have to be reimbursed to the purchaser.

Article 11 ASSIGNMENT OF THE CONTRACT

11.1. The purchaser shall have no right to assign his position in the contract or in individual binding relationships deriving from the contract without Athena's written consent thereof. The purchaser remains, however, jointly and severally responsible with the assignee for the assigned obligations.

Article 12

INTERPRETATION, MODIFICATION, INVALID CLAUSES

- 12.1. The Italian text of the present general conditions shall be the only authentic text for the interpretation thereof.
- 12.2. Any exhibit or preamble shall be considered part of the contracts they refer to. Any reference made to price-list, general conditions or other material either by Athena or by third parties, shall be deemed made to the documents in force at the moment of said reference, unless otherwise specified. All correspondent texts previously in force between the parties shall have to be considered cancelled.
- 12.3. The statements made or the behavior held by the parties during the execution of the contract may contribute to the interpretation only of the contract they refer to and only where not in contrast with the present general conditions or with the written agreements made by the parties at the time of entering the contract at issue.
- 12.4. Excepting the provisions set forth in articles 2.4. and 2.5., any modification or integration made by the parties to the contracts in connection with the present general conditions, shall be void unless set forth in writing. Any derogations to one or more dispositions of the present general conditions shall not be interpreted extensively or for analogy and shall not imply the will to disregard all present general conditions.
- 12.5. Unless otherwise agreed upon in writing, no variation to the contractual conditions between the parties shall constitute modification of the contract.
- 12.6. In case of invalidity or ineffective contractual provisions, the whole contract shall have to be integrated and interpreted as containing all the clauses that allow reaching, in compliance with the law, the essential aim pursued by the agreement containing the provisions hereina-

Article 13 COMPETENT JURISDICTION

13.1. Any dispute relating to or however in connection with the contracts governed by the present general conditions shall be settled by the courts of Vicenza as the exclusive competent jurisdiction. The seller shall however have the right to take action in the Purchaser's Court.

Date
The seller
The purchaser

The provisions set forth in the articles hereunder are expressly accepted.

- Art. 2 Execution and Object of the Contract
- Art. 4 Guarantee
- Art. 5 Claims
- Art. 6 Manufacturer's Responsibility
- Art. 7 Delivery
- Art. 8 Payment
- Art. 9 Reservation of Title
- Art. 10 Force Majeure
- Art. 11 Assignment of the Contract
- Art. 13 Competent Jurisdiction

The purchaser

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via delle Albere, 13 36045 Alonte (VI) - ITALY Tel. +39 0444.72.72.72 Fax +39 0444.72.72.22 www.athena.eu

