

# Monti & Barabino

Technical Supplies for  
Industrial and Naval field  
since 1880



**GASKETS**



**Monti & Barabino**, established in 1880, is based in Genoa and operates in the field of Technical Items supplies for the Industrial and Maritime Sectors.

The extremely wide experience matured in more than 135 years of activity and its highly qualified personnel composed by technicians, marine engineers, naval architects etc., enables the Company to offer the most complete and efficient technical and commercial assistance.

Moreover, the products stocked in its large warehouse allows it to promptly satisfy any kind of enquiry, while its workshop is able to manufacture all types of packings and gaskets comprising the moulding of rubber and elastomer of various types, including silicon, Fluoropolymer, Polyurethane, etc.

Since February 2004, Monti & Barabino S.p.A. improved its Quality Management System in accordance with **UNI EN ISO 9001** regulations, obtaining the certification through **R.I.N.A.** This prestigious acknowledgement is a confirmation of our constant effort in offering excellent quality and service to all those Customers who have chosen and will choose our Company as their supplier.



Our workshop, acting as  Official distributor, is able to offer:

- FLEXIBLE HOSES FOR LOW, MEDIUM AND VERY HIGH PRESSURE
- MED APPROVED FLEXIBLE HOSES
- TYPE APPROVED SHIP TO SHORE AND INDUSTRIAL COMPOSITE HOSES
- HIGH PRESSURE STEAM HOSES
- HIGH PRESSURE CLEANING HOSES
- RUBBER, STAINLESS STEEL AND TEXTILE EXPANSION JOINTS

Moreover:

- HYDRAULIC TEST FACILITIES
- MANAGEMENT OF TESTING PROCEDURES IN PRESENCE OF CLASSIFICATION BODIES
- PRESSED FITTINGS ON LARGE BORE RUBBER HOSES UP TO 10"

**MECHANICAL WORKSHOP** and **PIPE WORKSHOP** are available for the execution of customized processes on our semi-finished products. Thanks to the wide availability of **WAREHOUSE** we are able to satisfy your needs in a short time, organizing and managing your shipments in a very short time.

We perform CNC turning and cutting on rubber and metal semi-finished products; we mold details and rubber gaskets.



We produce gaskets in any material, even according to Customer's design, including padded copper and spiral wound gaskets.

We sew and assemble insulating mats and textile joints: wide choice of fabrics for high temperatures.



Laser marking of finished products and components

We are an authorized **Parker** assembling center, hydraulic hoses up to 3" and industrial hoses up to 10".  
Ask for our **FLEXIBLE HOSES** and **ACCESSORIES CATALOG**



Approved welders able to manufacture special fittings according to Customer's specifications.

We perform internal hydrostatic tests, also in the presence of an external Certifying Body.



<b>FLAT FLANGE ASA 150</b>					
<b>DN</b>	<b>D</b>	<b>d</b>	<b>N° Holes</b>	<b>Ø</b>	<b>Pitch</b>
1/2	88,9	22,3	4	15,9	60,3
3/4	98,4	27,4	4	15,9	69,8
1	107,9	34,5	4	15,9	79,4
1 1/4	117,5	43,2	4	15,9	88,9
1 1/2	127,0	49,5	4	15,9	98,4
2	152,4	62,0	4	19,0	120,6
2 1/2	177,8	74,7	4	19,0	139,7
3	190,5	90,7	4	19,0	152,4
3 1/2	215,9	103,4	8	19,0	177,8
4	228,6	116,1	8	19,0	190,5
5	254,0	143,8	8	22,2	215,9
6	279,4	170,7	8	22,2	241,3
8	342,9	221,5	8	22,2	298,4
10	406,4	276,3	12	25,4	361,9
12	482,6	327,1	12	25,4	431,8
14	533,4	359,1	12	28,6	476,2
16	596,9	410,5	16	28,6	539,7
18	635,0	461,8	16	31,7	577,8
20	698,5	513,1	20	31,7	635,0
22	749,3	564,4	20	34,9	692,1
24	812,8	615,9	20	34,9	749,3
26	869,9	666,7	24	34,9	806,4
30	984,2	768,3	28	34,9	914,4
34	1111,2	869,9	32	41,3	1028,7
36	1168,4	920,7	32	41,3	1085,8
42	1346,2	1073,1	36	41,3	1257,3

<b>FLAT FLANGE ASA 300</b>					
<b>DN</b>	<b>D</b>	<b>d</b>	<b>N° Holes</b>	<b>Ø</b>	<b>Pitch</b>
1/2	95,2	22,3	4	15,9	66,7
3/4	117,5	27,7	4	19,0	82,5
1	123,8	34,5	4	19,0	88,9
1 1/4	133,3	43,2	4	19,0	98,4
1 1/2	155,6	49,5	4	22,2	114,3
2	165,1	62,0	8	19,0	127,0
2 1/2	190,5	74,7	8	22,2	149,2
3	209,5	90,7	8	22,2	168,3
3 1/2	228,6	103,4	8	22,2	184,1
4	254,0	116,1	8	22,2	200,0
5	279,4	143,8	8	22,2	234,9
6	317,5	170,7	12	22,2	269,9
8	381,0	221,5	12	25,4	330,2
10	444,5	276,3	16	28,6	387,3
12	520,7	327,1	16	31,7	450,8
14	584,2	359,1	20	31,7	514,3
16	647,7	410,5	20	34,9	571,5
18	711,2	461,8	24	34,9	628,6
20	774,7	513,1	24	34,9	685,8
22	838,2	564,4	24	41,3	742,9
24	914,4	615,9	24	41,3	812,8
26	971,5	666,7	28	44,4	876,3
30	1092,2	768,3	28	47,6	996,9
34	1206,5	868,9	28	50,8	1104,9
36	1270	920,7	32	54,0	1168,4
42	1447,8	1073,1	36	54,0	1339,8

<b>FLAT FLANGE PN 6</b>					
<b>DN</b>	<b>D</b>	<b>d</b>	<b>N° Holes</b>	<b>Ø</b>	<b>Pitch</b>
15	80	22	4	12	55
20	90	28	4	12	65
25	100	34	4	12	75
32	120	43	4	14	90
40	130	49	4	14	100
50	140	62	4	14	110
65	160	77	4	14	130
80	190	90	4	18	150
100	210	116	4	18	170
125	240	141	8	18	200
150	265	170	8	18	225
175	295	196	8	18	255
200	320	221	8	18	280
250	375	275	12	18	335
300	440	326	12	22	395
350	490	358	12	22	445
400	540	409	16	22	495
450	595	460	16	22	550
500	645	510	20	22	600
600	755	612	20	25	705
700	860	716	24	25	810
800	975	818	24	29	920
900	1075	920	24	29	1020
1000	1175	1020	28	29	1120

**FLAT FLANGE PN 10**

<b>DN</b>	<b>D</b>	<b>d</b>	<b>N° Holes</b>	<b>Ø</b>	<b>Pitch</b>
15	95	22	4	14	65
20	105	28	4	14	75
25	115	34	4	14	85
32	140	43	4	18	100
40	150	49	4	18	110
50	165	62	4	18	125
65	185	77	4	18	145
80	200	90	4	18	160
100	220	116	8	18	180
125	250	141	8	18	210
150	285	170	8	22	240
175	315	196	8	22	270
200	340	221	8	22	295
250	395	275	12	22	350
300	445	326	12	22	400
350	505	358	16	22	460
400	565	409	16	25	515
450	615	460	20	25	565
500	670	510	20	25	620
600	780	612	20	30	725
700	895	716	24	30	840
800	1015	818	24	33	950
900	1115	920	28	33	1050
1000	1230	1020	28	36	1160

<b>FLAT FLANGE PN 16</b>					
<b>DN</b>	<b>D</b>	<b>d</b>	<b>N° Holes</b>	<b>Ø</b>	<b>Pitch</b>
15	95	22	4	14	65
20	105	28	4	14	75
25	115	34	4	14	85
32	140	43	4	18	100
40	150	49	4	18	110
50	165	62	4	18	125
65	185	77	4	18	145
80	200	90	8	18	160
100	220	116	8	18	180
125	250	141	8	18	210
150	285	170	8	22	240
175	315	196	8	22	270
200	340	221	12	22	295
250	405	275	12	25	355
300	460	326	12	25	410
350	520	358	16	25	470
400	580	409	16	30	525
450	640	460	20	30	585
500	715	510	20	33	650
600	840	612	20	36	770
700	910	716	24	36	840
800	1025	818	24	39	950
900	1125	920	28	39	1050
1000	1255	1020	28	42	1170



## FLEXOID® GASKET PAPER

### GENERALITY

Plasticised gelatine impregnated material, cellulose based.

### APPLICATIONS

Limited uses in industrial markets because of relatively low heat and chemical resistance compared with non-asbestos materials. Suitable for petrol, oil and water at low cost, Flexoid is used extensively by the major manufacturers for Carburettor; Fuel Pump; Front Plate; Oil Pump; Oil Filter; Side Cover; Timing Cover; Thermostat; Water Pump.



<i>Features</i>	<i>Method</i>	<i>Value</i>	<i>U.M.</i>
Density		0,85	g/cm <sup>3</sup>
Compressibility	ASTM F36J	25 ÷ 40	%
Recovery		> 40	
Tensile Strength	ASTM F152	13,79	MPa
Thickness Increase Oil ASTM 3 22h @ 30°C	ASTM F146	5	%
Thickness Increase FUEL B 22h @ 30°C		5	
Thickness Increase WATER 22h @ 30°C		30	
Service Temperature *		120	°C
Service Pressure *		10	Bar

Commercial Size: Roll H 1000 mm

Thickness from 0,2 to 3,0 mm

\* The maximum allowed Temperature and Pressure are not to be operated simultaneously. They depend on a variety of factors such as thickness, state of the joints, dimensions, tightening, thermal or mechanical shock. These values should only be regarded as guideline for the proper gasket assembly.

The reported values are for guidance purposes only and are issued in order to provide a guideline for gasket selection. They could be changed without notice or / and any commitment by the Company.

### **References**

ASTM F 104-83 F326128 E 21 M6, D1170-62T, P3313B, MIL G 12803 A, MIL G 12803B, FIAT 9.14631/1-3A 1-3B

## BELDAM® PILOTSEAL 178

### GENERALITY

Beldam Pilotseal 178 is a jointing material consisting of a high quality compressed fibre sheet material manufactured from a blend of special heat resistant fibres with a elastomeric binder. The sheet material has printed 25mm squares to assist when cutting and making gaskets. The material complies with the test requirements for BS7531 Grade Y.



### APPLICATIONS

Suitable for use with oils, solvents, gases, water, steam, alkalis & dilute acids.

Features		Method	Value	Unit
Temperature Range *			-40 / +400	°C
Pressure Range *	General		10,4	MPa
	Steam		1,5	
Tensile Strength		ASTM F152	14	
Density			1,8	g/cm <sup>3</sup>
Residual Stress		BS7531	23	MPa
Compressibility		ASTM F36J	8	%
Recovery			62	
Thickness Increase	OIL 1 5h @ 150°C	ASTM	3	%
	OIL 3 5h @ 150°C		5	
	FUEL A 5h @ 20°C		3	
	FUEL B 5h @ 20°C		3	
Free Chloride Content			<100	ppm
Gas Permeability		BS7531	<0,01	ml/min

Sheet Size mm 1520x1520 tolerance +/- 50 mm

Thickness from 0,5 to 3,0 mm tolerance +/- 10%

\* The maximum allowed Temperature and Pressure are not to be operated simultaneously. They depend on a variety of factors such as thickness, state of the joints, dimensions, tightening, thermal or mechanical shock. These values should only be regarded as guideline for the proper gasket assembly.

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## BELDAM® PILOTSEAL 170 REINFORCED

### GENERALITY

Beldam Crossley Pilotseal 170 is a non-asbestos good quality compressed jointing manufactured from heat resistant synthetic fibre and polymer and reinforced with a fine steel wire mesh that provides the higher strength needed for severe operating conditions such as vibration and fluctuating temperatures.

### APPLICATIONS

This jointing is completely asbestos free and is recommended for sealing against steam, water, oils, gases, dilute acids and alkalis. It is particularly suitable for applications involving vibration, fluctuating temperatures and narrow flange width gaskets.



Features	Method	Value	UNIT
Temperature Range *		400	°C
Pressure Range *		12,4	MPa
Tensile Strength	ASTM F152	10,3	
Density		1,95	g/cm <sup>3</sup>
Stress Relaxation	BS7531	28	MPa
Compressibility	ASTM F36J	10	%
Recovery		60	
Free Chloride Content		<100	ppm

Sheet Size mm 1520x1520 tolerance +/- 50 mm

Thickness from 0,5 to 3,0 mm tolerance +/- 10%

\* The maximum allowed Temperature and Pressure are not to be operated simultaneously. They depend on a variety of factors such as thickness, state of the joints, dimensions, tightening, thermal or mechanical shock. These values should only be regarded as guideline for the proper gasket assembly.

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## BENDERITE® AF200

### GENERALITY

Benderite® AF200 is suitable for non-demanding applications in particular the water supply industry. It has been designed with good mechanical and sealing properties.



### APPLICATIONS

General use in the presence of air and water, including drinking water, alcohol, diesel, mineral or glycol-based hydraulic oil. Not suitable for organophosphate based oils.

Features		Method	Value	Unit
Density		DIN 28090-2	1,8	g/cm <sup>3</sup>
Compressibility		ASTM F36J	9	%
Recovery			60	
Tensile Strength		ASTM F152	8	MPa
Stress Resistance	175°C (16 h, 50 MPa)	DIN 52913	20	
	300°C (16 h, 50 MPa)		/	
Specific Leak Rate		DIN 3535-6	0,04	mg/(s·m)
Specific Leak Rate		ASTM F146	10	%
Thickness Increase in oil IRM 903 5h @ 150°C			10	
Thickness Increase in FUEL B 5h @ 23°C		DIN 28090	/	%
Compression Modulus @ room temperature			/	
Compression Modulus @ 100°C			/	
Creep Relaxation @ room temperature			/	
Max * operating conditions	Peak Temperature		180	°C
	Continuous Temperature		150	
	With Steam		120	
Pressure *			40	Bar

Sheet Size mm 1520x1520 tolerance +/- 50 mm

Thickness from 0,5 to 3,0 mm tolerance +/- 10%

\* The maximum allowed Temperature and Pressure are not to be operated simultaneously. They depend on a variety of factors such as thickness, state of the joints, dimensions, tightening, thermal or mechanical shock. These values should only be regarded as guideline for the proper gasket assembly.

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### References

For further details please contact our Technical Department

## BENDERITE® AF300

### GENERALITY

Benderite® AF300 has good thermal and chemical resistance, which makes it appropriate for use in a wide range of applications. It is well suited for use with potable water supply and shipbuilding.



### APPLICATIONS

General purposes, water supply, gas supply, food industry, automotive, shipbuilding.

Features		Method	Value	Unit
Density		DIN 28090-2	1,8	g/cm <sup>3</sup>
Compressibility		ASTM F36J	9	%
Recovery			55	
Tensile Strength		ASTM F152	11	MPa
Stress Resistance	175°C (16 h, 50 MPa)	DIN 52913	25	
	300°C (16 h, 50 MPa)		/	
Specific Leak Rate		DIN 3535-6	0,07	mg/(s·m)
Thickness Increase in oil IRM 903 5h @ 150°C		ASTM F146	8	%
Thickness Increase in FUEL B 5h @ 23°C			10	
Compression Modulus @ room temperature		DIN 28090	8,5	%
Compression Modulus @ 100°C			2,5	
Creep Relaxation @ room temperature			5,1	
Creep Relaxation @ 100°C			1,2	
Max * operating conditions	Peak Temperature		280	°C
	Continuous Temperature		220	
	With Steam		180	
Pressure *			80	Bar

Sheet Size mm 1520x1520 tolerance +/- 50 mm

Thickness from 0,5 to 3,0 mm tolerance +/- 10%

\* The maximum allowed Temperature and Pressure are not to be operated simultaneously. They depend on a variety of factors such as thickness, state of the joints, dimensions, tightening, thermal or mechanical shock. These values should only be regarded as guideline for the proper gasket assembly.

The reported values are for guidance purposes only and are issued in order to provide a guideline for gasket selection. They could be changed without notice or / and any commitment by the Company.

### **References**

DIN-DVGW DIN 3535-6, DVGW KTW, DVGW W270, TA-Luft (VDI 2440), WRAS, Germanischer Lloyd, EC 1935/2004.

# BENDERITE® AF300 LIGHT BLUE

## GENERALITY

Benderite® AF300 BLU combines very good thermal, chemical, and mechanical properties that makes it a general-purpose gasket material. It is well designed for gas and potable water supplies.



## APPLICATIONS

General purposes, water supply, potable water supply, gas supply, petrochemical industry, food industry, automotive, shipbuilding, refrigeration and cooling, heating systems, compressors.

Features		Method	Value	Unit
Density		DIN 28090-2	1,7	g/cm <sup>3</sup>
Compressibility		ASTM F36J	11	%
Recovery			60	
Tensile Strength		ASTM F152	10	MPa
Stress Resistance	175°C (16 h, 50 MPa)	DIN 52913	27	
	300°C (16 h, 50 MPa)		23	
Specific Leak Rate		DIN 3535-6	0,05	mg/(s·m)
Thickness Increase in oil IRM 903 5h @ 150°C		ASTM F146	2	%
Thickness Increase in FUEL B 5h @ 23°C			5	
Compression Modulus @ room temperature		DIN 28090	9,5	%
Compression Modulus @ 100°C			16,1	
Creep Relaxation @ room temperature			4,7	
Creep Relaxation @ 100°C			0,8	
Max * operating conditions	Peak Temperature			
	Continuous Temperature		250	
	With Steam		200	
Pressure *			100	Bar

Sheet Size mm 1520x1520 tolerance +/- 50 mm

Thickness from 0,5 to 3,0 mm tolerance +/- 10%

\* The maximum allowed Temperature and Pressure are not to be operated simultaneously. They depend on a variety of factors such as thickness, state of the joints, dimensions, tightening, thermal or mechanical shock. These values should only be regarded as guideline for the proper gasket assembly.

The reported values are for guidance purposes only and are issued in order to provide a guideline for gasket selection. They could be changed without notice or / and any commitment by the Company.

## **References**

DIN-DVGW DIN 3535-6, SVGW DIN 3535-6, DVGW VP401, DVGW KTW, DVGW W270, TA-Luft (VDI 2440), BAM (Oxygen) WRAS, Germanischer Lloyd, ABS, AGA 8140 G (Class III), EC 1935/2004

## BENDERITE® AF400

### GENERALITY

Benderite® AF400 is specifically manufactured for heating systems that utilise steam or mineral oils, however it is also suitable for other applications. It has very good thermal and chemical resistance.

### APPLICATIONS

General purposes, water supply, potable water supply, steam supply, gas supply, food industry, heating systems, shipbuilding.



Features		Method	Value	Unit
Density		DIN 28090-2	1,8	g/cm <sup>3</sup>
Compressibility		ASTM F36J	7	%
Recovery			55	
Tensile Strength		ASTM F152	7	MPa
Stress Resistance	175°C (16 h, 50 MPa)	DIN 52913	35	
	300°C (16 h, 50 MPa)		30	
Specific Leak Rate		DIN 3535-6	0,06	mg/(s·m)
Thickness Increase in oil IRM 903 5h @ 150°C		ASTM F146	8	%
Thickness Increase in FUEL B 5h @ 23°C			10	
Compression Modulus @ room temperature		DIN 28090	7,6	%
Compression Modulus @ 100°C			11,4	
Creep Relaxation @ room temperature			3,2	
Creep Relaxation @ 100°C			0,8	
Max * operating conditions	Peak Temperature		350	°C
	Continuous Temperature		270	
	With Steam		230	
Pressure *			100	Bar

Sheet Size mm 1520x1520 tolerance +/- 50 mm

Thickness from 0,5 to 3,0 mm tolerance +/- 10%

\* The maximum allowed Temperature and Pressure are not to be operated simultaneously. They depend on a variety of factors such as thickness, state of the joints, dimensions, tightening, thermal or mechanical shock. These values should only be regarded as guideline for the proper gasket assembly.

The reported values are for guidance purposes only and are issued in order to provide a guideline for gasket selection. They could be changed without notice or / and any commitment by the Company.

### **References**

DIN-DVGW DIN 3535-6, SVGW DIN 3536-6, DVGW VP401, DVGW KTW, DWGW W270, BAM (Oxygen), EC 1935/2004

## BENDERITE® AF400 REINFORCED

### GENERALITY

**Benderite® AF400 Reinforced** is specifically manufactured for heating systems that utilise steam or mineral oils, however it is also suitable for other applications. It has very good thermal and chemical resistance.



### APPLICATIONS

General purposes, water supply, potable water supply, steam supply, gas supply, food industry, heating systems, shipbuilding.

Features		Method	Value	Unit
Density		DIN 28090-2	1,7	g/cm <sup>3</sup>
Compressibility		ASTM F36J	15	%
Recovery			40	
Tensile Strength		ASTM F152	7	MPa
Stress Resistance	175°C (16 h, 50 MPa)	DIN 52913	35	
	300°C (16 h, 50 MPa)		30	
Specific Leak Rate		DIN 3535-6	0,06	mg/(s·m)
Thickness Increase in oil IRM 903 5h @ 150°C		ASTM F146	3	%
Thickness Increase in FUEL B 5h @ 23°C			14	
Compression Modulus @ room temperature		DIN 28090	7,6	%
Compression Modulus @ 100°C			11,4	
Creep Relaxation @ room temperature			3,2	
Creep Relaxation @ 100°C			0,8	
Max * operating conditions	Peak Temperature		350	°C
	Continuous Temperature		270	
	With Steam		230	
Pressure *			100	Bar

Sheet Size mm 1520x1520 tolerance +/- 50 mm

Thickness from 0,5 to 3,0 mm tolerance +/- 10%

\* The maximum allowed Temperature and Pressure are not to be operated simultaneously. They depend on a variety of factors such as thickness, state of the joints, dimensions, tightening, thermal or mechanical shock. These values should only be regarded as guideline for the proper gasket assembly.

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### **References**

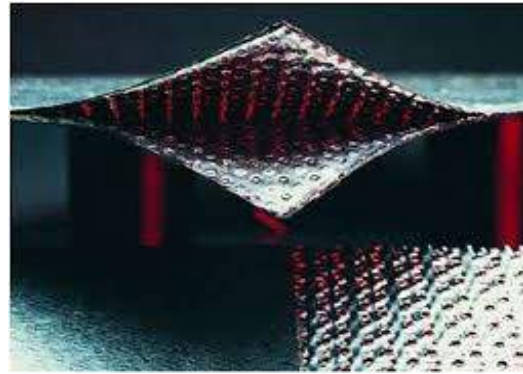
DIN-DVGW DIN 3535-6, SVGW DIN 3536-6, DVGW VP401, DVGW KTW, DWGW W270, BAM (Oxygen), EC 1935/2004



## BENDERITE® AF500 REINFORCED

### GENERALITY

**BENDERITE® AF 500 Reinforced** is a sheet of pure expanded graphite treated with corrosion inhibitor and reinforced with a tanged stainless steel core.



### APPLICATIONS

This jointing is recommended for applications in which a combination of high sealing stress and greater blowout resistance is required. Suitable for sealing against steam, gas and most chemicals, except oxidising agents.

Features		Method	Value	Unit
Density		DIN 28090-2	1,1	g/cm <sup>3</sup>
Compressibility		ASTM F36J	35	%
Recovery			15	
Stress Resistance	300°C (16 h, 50 MPa)	DIN 52913	49	N/mm <sup>2</sup>
Compression modulus @ room temperature		DIN 28090	250	
Compression modulus @ 300°C			160	
Temperature	air or oxidising agents		400	°C
	inert fluid or reducing agents		530	
	minimum working temperature		- 240	
Pressure *			150	Bar

Sheet Size mm 1000x1000 tolerance +/- 50 mm

Thickness from 1 to 3 mm tolerance +/- 10%

\* The maximum allowed Temperature and Pressure are not to be operated simultaneously. They depend on a variety of factors such as thickness, state of the joints, dimensions, tightening, thermal or mechanical shock. These values should only be regarded as guideline for the proper gasket assembly.

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## BENDERGRAPH®



### GENERALITY

Bendergraph® is a special jointing made with graphite and special polymer coating both sides. This structure ensures high flexibility, stability and excellent resistance, maintaining the ease of cutting.

### APPLICATIONS

Bendergraph® is suitable to be used with water, exhaust gases, steam, oils, solvents, petroleum based products, chemicals and cryogenic applications. Also available with wire mesh reinforcement.

	<i>Method</i>	<i>Bendergraph</i>	<i>Bendergraph reinforced</i>	<i>U.M.</i>
Density		1,15	1,6	g/cm <sup>3</sup>
Compressibility	EN 13555	40	25	%
Recovery		≥33	≥40	
Tensile Strength	ASTM F152	≥25	≥63	MPa
Gas Permeability	DIN 3535-4	0,003	>1,0	ml/min
Thickness Increase in Fuel	ASTM B	3,4	7,0	%
Thickness Increase in Oil	ASTM Oil 3	2	6,4	
Creep Relaxation		<8	<10	
Max Temperature / Peak *		450 / 650		°C
Max Continuous Pressure *		100	150	bar

Sheet Size mm 1520x1520 tolerance +/- 50 mm

Thickness from 0,5 to 3,0 mm tolerance +/- 10%

\* The maximum allowed Temperature and Pressure are not to be operated simultaneously. They depend on a variety of factors such as thickness, state of the joints, dimensions, tightening, thermal or mechanical shock. These values should only be regarded as guideline for the proper gasket assembly.

The reported values are for guidance purposes only and are issued in order to provide a guideline for gasket selection. They could be changed without notice or / and any commitment by the Company.

## BENDERITE® AF850 REINFORCED

### GENERALITY

**Benderite®AF850** is a special jointing made from flexible mica, reinforced with stainless steel.

### APPLICATIONS

**Benderite®AF850** is expressly designed to be used in presence of very high temperatures.



	<i>Method</i>	<i>Value</i>	<i>U.M.</i>
Density	DIN 28090-2	1,65 / 1,95	g/cm <sup>3</sup>
Compressibility	DIN 3535-6	> 16	%
Recovery		> 3	
Creep Relaxation	DIN 3535-6	<12	mg*s <sup>-1</sup> *m <sup>-1</sup>
Leakage		<0,1	
Tensile Strength	DIN	35	N/mm <sup>2</sup>
Temperature / Peak *		850 / 900	°C
Pressure *		60	bar

Sheet Size mm 1000x1000 tolerance +/- 50 mm

Thickness from 1 to 3,0 mm tolerance +/- 10%

\* The maximum allowed Temperature and Pressure are not to be operated simultaneously . They depend on a variety of factors such as thickness, state of the joints , dimensions , tightening , thermal or mechanical shock. These values should only be regarded as guideline for the proper gasket assembly.

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## BENDERITE® MB TISS

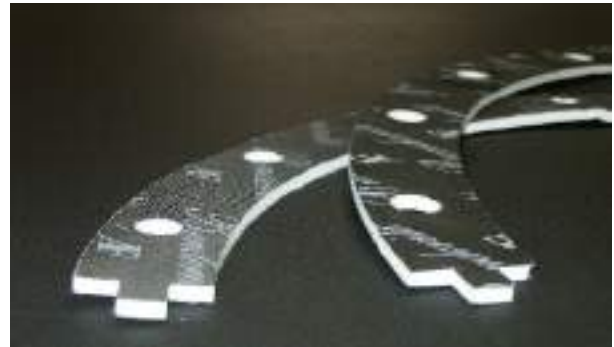
### GENERALITY

**Benderite®MB TISS** is a special jointing made of Bio-soluble ceramic fibers, compressed between fiberglass “E” type. This product has no risks related to inhalation as it is made from fibers that have a reduced biopersistence time in lung tissue. Considered “not carcinogenic” as defined in Note Q of Directive 97/69 / EC relating to the classification of mineral fibers. When exposed to the flame will not burn or emit toxic fumes.



### APPLICATIONS

**Benderite® MB TISS** ensure the best resistance in case of thermal shock. Thanks to it’s softness, it can easily fit the irregular surfaces of the flanges, also in presence of low tightening torque. Recommended to be used for the manufacturing of gas exhaust gaskets for marine engine.



	<b>Method</b>	<b>Value</b>	<b>Unit</b>
Density	DIN 3754	0,4	g/cm <sup>3</sup>
Compressibility	ASTM F 36	> 50	%
Recovery		> 25	
Combustibility	Class 0 ( Incombustible )		
Temperature / Peak *		600/ 1100	°C
Pressure *		5	bar

Sheet Size mm 122x2000 tolerance +/- 50 mm

Thickness 6 mm tolerance +/- 10%

\* The maximum allowed Temperature and Pressure are not to be operated simultaneously . They depend on a variety of factors such as thickness, state of the joints , dimensions , tightening , thermal or mechanical shock. These values should only be regarded as guideline for the proper gasket assembly.

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## BENDERITE® ECO-VERDE

### GENERALITY

Benderite® Eco-Verde is a jointing made from synthetic fibres, bound together with nitrile elastomer.

### APPLICATIONS

Suitable for general application in the presence of medium temperature and pressure.



<b>Features</b>		<b>Method</b>	<b>Value</b>	<b>Unit</b>
Density		DIN 28090-2	1,8	g/cm <sup>3</sup>
Compressibility		ASTM F36J	9	%
Recovery			54	
Tensile Strength		ASTM F152	11	MPa
Stress Resistance	175°C (16 h, 50 MPa)	DIN 52913	25	
	300°C (16 h, 50 MPa)		/	
Specific Leak Rate		DIN 3535-6	0,07	mg/(s·m)
Thickness Increase in oil IRM 903 5h @ 150°C		ASTM F146	3	%
Thickness Increase in FUEL B 5h @ 23°C			11	
Compression Modulus @ room temperature		DIN 28090	8,5	%
Compression Modulus @ 100°C			2,5	
Creep Relaxation @ room temperature			5,1	
Creep Relaxation @ 100°C			1,2	
Max * operating conditions			180	
Pressure *		70	Bar	

Sheet Size mm 1520x1520 tolerance +/- 50 mm

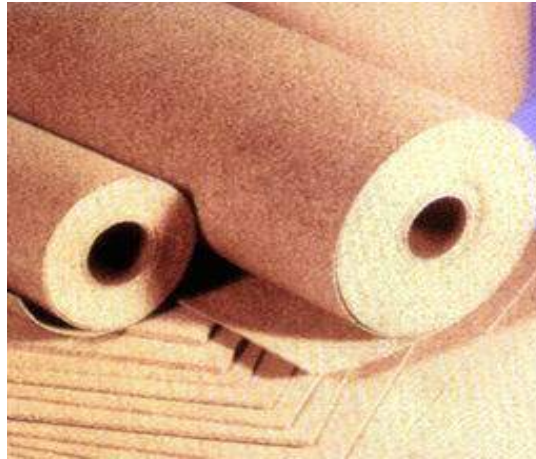
Thickness from 0,5 to 3,0 mm tolerance +/- 10%

\* The maximum allowed Temperature and Pressure are not to be operated simultaneously. They depend on a variety of factors such as thickness, state of the joints, dimensions, tightening, thermal or mechanical shock. These values should only be regarded as guideline for the proper gasket assembly.

The reported values are for guidance purposes only and are issued in order to provide a guideline for gasket selection. They could be changed without notice or / and any commitment by the Company.

## RUBBERCORK RCN

### GENERALITY



Rubbercork RCN is a good quality material realized with cork grains and NBR rubber binders.

### APPLICATIONS

Rubbercork RCN is suitable for many technical applications with medium clamping pressure. In particular it is suitable for sealing gaskets and other functions in the motor field, antifreeze, water, air etc. Featuring a high compressibility, high elastic recovery. It offers good resistance to oils, greases, antifreeze and air.

### FEATURES

#### PROPERTIES

<b>Density</b>	0,55 - 0,70
<b>Hardness</b>	60 - 75 Sh A
<b>Compressibility</b>	30 - 45 % a 400 psi
<b>Recovery</b>	> 80 %
<b>Tensile Strenght</b>	> 1,7 MPa

#### THICKNESS INCREASE AFTER FLUID IMMERSION:

<b>Oil ASTM 1 (70 h @ 100°C)</b>	-5% +10%
<b>Oil ASTM 2 (70 h @ 100°C)</b>	-2% +15%
<b>Fuel ASTM A (22 h @ a.t.)</b>	-2% +10%

## GUARNIFLON



**GUARNIFLON** is made from 100% pure, expanded, virgin PTFE. The whole production process is subject to strict quality control. Available in tapes and slabs.

**FDA approved** for use in the food machineries, it is chemically inert and physiologically harmless.

### APPLICATIONS

Because of its excellent thermal and chemical resistance, **Guarniflon** can be used in a wide variety of static applications in nearly all kinds of industry. The exceptional malleability of expanded PTFE can compensate for out-of-parallel and/or damaged sealing surfaces and allows use with stress sensitive connections and applications where only a limited flange load is available, e.g. plastic flanges, glass flanges, etc. Typical applications are the sealing of flanges, pump housings, compressors, hand- and manholes, air ducts, compensators, heat exchangers and many more.

### FEATURES

Chemically inert with most of the chemical products.

Thanks to the adhesive strip the installation is fast and precise, with considerable time saving and reduced maintenance costs.

It fits the irregularities of the flanges preventing surface damages.

<b>Density</b>	Density 0,65 g/cm <sup>3</sup>
<b>Working Temperature</b>	from -240°C to +260°C
<b>Operating pressure</b>	Vacuum up to 200 bar
<b>pH range</b>	0 / 14

## PILOT LIDPACK 3801/L

### GENERALITY

**BELDAM**  
CROSSLEY



In order to prevent water pollution is being paid more and more attention to the safety of the sea transport of dangerous goods such as chemicals, oils and solvents. To meet this need the Beldam 's Crossley, a leading worldwide designer and manufacturer of sealing elements, has created a special seal for tanks and reservoirs.



### FEATURES

The **Pilot Lidpack 3801/L** is a special development built on the 3800 version. It consists of a hollow elastomeric core, spirally wrapped with layers of PTFE tape. On the outside a special cover of unsintered PTFE TAPE gives complete impermeability to liquids and chemicals, ensuring maximum strength and abrasion resistance.

The structure of the **Pilot Lidpack 3801/L** has characteristic of elasticity and adaptability such as to ensure a perfect seal even with an irregular profile of the seat in which the gasket is inserted. **Pilot Lidpack 3801/L has been expressly designed for light oils and petrochemicals**, including Virgin Naphta, but also suitable for heavy oils. The maximum operating temperature is 100 °C at 1 Bar. pH range 2-13.



## INSTALLATION INSTRUCTIONS

It is important that the seat of the lid in which it will be applied to the gasket previously degreased and cleaned of rust. Grease the groove with silicone grease can facilitate the insertion of the gasket.

Trim the end of the gasket with a sharp knife so that the section is perfectly square, and then measure the circumference of the groove superimposing **Pilot Lidpack 3801/L**. At the measured length add 2% so that the ring, once spliced, is slightly compressed.



### HOT JUNCTION

Press the two ends of the seal on a plate heated (300-350 ° c) until slightly melt the inner synthetic fabrics. At this point press strongly the two surfaces together and allow to cool. Ensure the success of the welding by flexing the ring just formed.

### COLD JUNCTION

As an alternative to heating plate, the junction can be carried out by bonding with Loctite adhesive for porous materials (or other similar adhesives).

Once aligned the two ends pressed strongly the two surfaces together and let them dry. Ensure the success of the welding by flexing the ring just formed.



Now apply the silicone grease on the junction and cover with PTFE tape, making sure that it properly adheres to the junction itself.



The ring can be positioned. Since it has been manufactured with 2% oversize, it must be forced to enter the groove.

The end result, is a ring of **Pilot Lidpack 3801/L** perfectly inserted inside the seat cover. Being oversized, the gasket must be compressed to be fitted inside the lid seat, ensuring a perfect seal.



## FEP ENCAPSULATED O-RINGS

### GENERALITY & APPLICATIONS

Special OR realized with normal elastic compounds such as NBR, SILICONE, VITON, EPDM, etc., covered by a film of FEP (FluoroEtilenePropilene), a special polymer that gives a better resistance to chemicals.

Essential in all applications where a higher resistance to chemical agents is required. They are widely used in the Chemical, Petrochemical and Food industries.



### FEATURES

The coverage FEP gives the O-rings excellent resistance to aggressive chemicals, with the exception of molten alkali metals, fluorine and some halogenated compounds, heat resistance, breakage, as well as a low coefficient of friction.

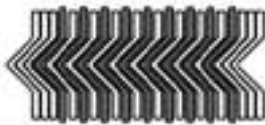
<b>ELASTOMER</b>	<b>CHARACTERISTICS</b>
SILICONE	Resistant to deformation and heat (-51° + 204°C)
VITON	Resistant to chemicals and heat (-17° + 204°C)
EPDM	Low gas permeability
	Working temperature from -46° to +149°C

## SPIRAL WOUND GASKETS

Spiral wound gaskets are special semi-metallic gaskets of great resilience, very suitable for applications featuring heavy operating conditions. Spiral wound gaskets are manufactured by spirally winding a V-shaped metal strip and a strip of non metallic filler material (graphite, PTFE etc). The metal strip holds the filler, providing the gasket with mechanical resistance and resilience.

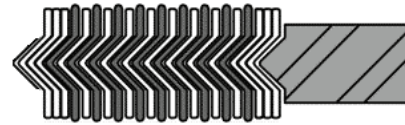


Spiral wound gaskets should always be in contact with the flange and should not protrude into the pipe or from the flange. They can be reinforced by an outer centering ring and/or inner retaining ring. The outer centering ring controls the compression and holds the gaskets centrally within the bolt circle. The inner retaining ring increases the axial rigidity and resilience of the gasket.



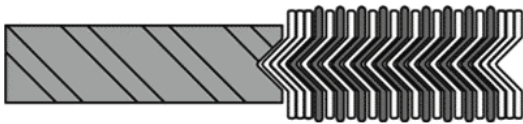
**R Type**

Without guide or inner ring



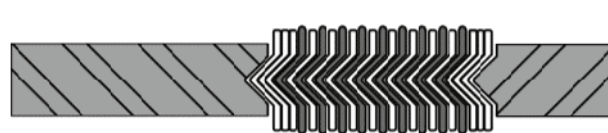
**IR Type**

With inner ring



**OR Type**

With outer guide ring



**IOR Type**

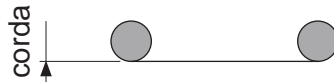
With guide and inner ring

Standard version round shaped according to UNI or ASA tables. Different styles upon request.

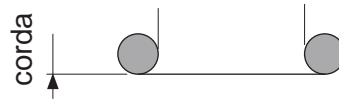
### APPLICATIONS AND ADVANTAGES

Used for sealing flange joints, manholes, boilers, heat exchangers, pumps, compressors and valves in petrochemical and shipbuilding industries, food processing, power industries. They are ideal for steam, oil, liquids, gases, acids, alkalines, and solvents.

Typical advantages are: Sealing under heavy operating conditions; Strong stress compensation, stable and reliable sealing performance even under frequent pressure fluctuation condition; Easy installation.



Rif. USA	Rif. INGLESE	d	Corda	Rif. USA	Rif. INGLESE	d	Corda	Rif. USA	Rif. INGLESE	d	Corda
		0,74	1,78	5-256	123	17,89	2,62	2-207	4055	13,87	3,53
2-4	2007	1,78	1,78	2-116	3075 124	18,72	2,62	2-208	4061	15,47	3,53
2-5	2010	1,78	1,78	2-117	3081 127	20,29	2,62	2-209	4067	17,04	3,53
2-6	2012 101	2,90	1,78		128	20,63	2,62	2-210	4075 125	18,64	3,53
2-7	2015 102	3,68	1,78	2-118	3087	21,89	2,62	2-211	4081 126	20,22	3,53
2-8	2018 103	4,48	1,78		130	22,22	2,62	2-212	4087 129	21,82	3,53
2-9	2021 104	5,28	1,78	2-119	3093	23,47	2,62	2-213	4093 131	23,40	3,53
2-10	2025 105	6,07	1,78		132	23,81	2,62	2-214	4100 133	24,99	3,53
5-052	106	6,75	1,78	2-120	3100	25,07	2,62	5-618	134	25,80	3,53
2-11	2031 107	7,66	1,78	2-121	3106	26,64	2,62	2-215	4106 135	26,58	3,53
5-612	108	8,73	1,78	2-122	3112	28,25	2,62	2-216	4112 136	28,17	3,53
2-12	2037 110	9,25	1,78	2-123	3118	29,82	2,62	2-217	4118 137	29,75	3,53
2-13	2043	10,82	1,78	2-124	3125	31,42	2,62	2-218	4125 138	31,34	3,53
5-613	114	11,11	1,78	2-125	3131	33,00	2,62	2-219	4131 139	32,92	3,53
2-14	2050	12,42	1,78	2-126	3137	34,59	2,62	2-220	4137 140	34,52	3,53
2-15	2056	14,00	1,78	2-127	3143	36,17	2,62	2-221	4143 141	36,10	3,53
2-16	2062	15,60	1,78	2-128	3150	37,77	2,62	2-222	4150 142	37,69	3,53
2-17	2068	17,16	1,78	2-129	3156	39,34	2,62	5-321	144	39,69	3,53
2-18	2075	18,77	1,78	2-130	3162	40,95	2,62	2-223	4162	40,87	3,53
2-19	2081	20,35	1,78	2-131	3168	42,52	2,62		146	41,28	3,53
2-20	2087	21,95	1,78	2-132	3175	44,12	2,62	5-332	147	42,86	3,53
2-21	2093	23,53	1,78	2-133	3181	45,69	2,62	2-224	4175	44,04	3,53
2-22	2100	25,12	1,78	2-134	3187	47,29	2,62		149	44,45	3,53
2-23	2106	26,70	1,78	2-135	3193	48,90	2,62	5-035	150	46,04	3,53
2-24	2112	28,30	1,78	2-136	3200	50,47	2,62	2-225	4187	47,22	3,53
2-25	2118	29,87	1,78	2-137	3206	52,07	2,62		152	47,63	3,53
2-26	2125	31,47	1,78	2-138	3212	53,65	2,62	5-701	153	49,21	3,53
2-27	2131	33,05	1,78	2-139	3218	55,25	2,62	2-226	4200	50,40	3,53
2-28	2137	34,65	1,78	2-140	3225	56,82	2,62		155	50,80	3,53
2-29	2150	37,82	1,78	2-141	3231	58,42	2,62	5-037	156	52,39	3,53
2-30	2162	41,00	1,78	2-142	3237	60,00	2,62	2-227	4212	53,57	3,53
2-31	2175	44,17	1,78	2-143	3243	61,60	2,62		158	53,98	3,53
2-32	2187	47,35	1,78	2-144	3250	63,17	2,62		159	55,56	3,53
2-33	2200	50,52	1,78	2-145	3256	64,77	2,62	2-228	4225	56,74	3,53
2-34	2212	53,67	1,78	2-146	3262	66,33	2,62		161	57,15	3,53
2-35	2225	56,87	1,78	2-147	3268	67,95	2,62	5-702	162	58,74	3,53
2-36	2237	60,04	1,78	2-148	3275	69,52	2,62	2-229	4237	59,92	3,53
2-37	2250	63,22	1,78	2-149	3281	71,12	2,62		164	60,33	3,53
2-38	2262	66,40	1,78	2-150	3287	72,69	2,62	5-039	165	61,90	3,53
2-39	2275	69,57	1,78	2-151	3300	75,87	2,62	2-230	4250	63,09	3,53
2-40	2287	72,76	1,78	2-152	3325	82,22	2,62		167	63,50	3,53
2-41	2300	75,92	1,78	2-153	3350	88,57	2,62	5-703	168	65,10	3,53
2-42	2325	82,28	1,78	2-154	3375	94,93	2,62	2-231	4262	66,27	3,53
2-43	2350	88,62	1,78	2-155	3400	101,27	2,62		170	66,67	3,53
2-44	2375	94,97	1,78	2-156	3425	107,63	2,62	5-361	171	68,26	3,53
2-45	2400	101,34	1,78	2-157	3450	113,98	2,62	2-232	4275	69,44	3,53
2-46	2425	107,70	1,78	2-158	3475	120,33	2,62		173	69,85	3,53
2-47	2450	114,00	1,78	2-159	3500	126,67	2,62	5-704	174	71,44	3,53
2-48	2475	120,40	1,78	2-160	3525	133,00	2,62	2-233	4287	72,62	3,53
2-49	2500	126,76	1,78	2-161	3550	139,38	2,62		176	73,02	3,53
2-50	2525	133,07	1,78	2-162	3575	145,72	2,62	5-705	177	74,60	3,53
	2562	142,11	1,78	2-163	3600	152,07	2,62	2-234	4300	75,80	3,53
	2637	161,16	1,78	2-164	3625	158,41	2,62	2-235	4312	78,97	3,53
2-102		1,24	2,62	2-165	3650	164,78	2,62	2-236	4325	82,14	3,53
2-103		2,06	2,62	2-166	3675	171,13	2,62	2-237	4337	85,32	3,53
2-104		2,84	2,62	2-167	3700	177,47	2,62	2-238	4350	88,50	3,53
2-105		3,63	2,62	2-168	3725	183,83	2,62	2-239	4362	91,67	3,53
2-106		4,42	2,62	2-169	3750	190,18	2,62	2-240	4375	94,84	3,53
2-107	3021	5,23	2,62	2-170	3775	196,53	2,62	2-241	4387	98,02	3,53
2-108	3024	6,02	2,62	2-171	3800	202,87	2,62	2-242	4400	101,20	3,53
2-109	3030	7,60	2,62	2-172	3825	209,23	2,62	2-243	4412	104,37	3,53
	109	9,13	2,62	2-173	3850	215,58	2,62	2-244	4425	107,54	3,53
2-110	3037 111	9,19	2,62	2-174	3875	221,93	2,62	2-245	4437	110,72	3,53
5-614	112	9,92	2,62	2-175	3900	228,28	2,62	2-246	4450	113,90	3,53
2-111	3043 113	10,78	2,62	2-176	3925	234,63	2,62	2-247	4462	117,07	3,53
5-615	115	11,91	2,62	2-177	3950	240,98	2,62	2-248	4475	120,25	3,53
2-112	3050 116	12,37	2,62	2-178	3975	247,33	2,62	2-249	4487	123,42	3,53
5-616	117	13,10	2,62	2-201		4,34	3,53	2-250	4500	126,60	3,53
2-113	3056 118	13,95	2,62	2-202		5,94	3,53	2-251	4512	129,77	3,53
5-243	119	15,08	2,62	2-203	4028	7,52	3,53	2-252	4525	132,94	3,53
2-114	3062 120	15,54	2,62	2-204	4036	9,12	3,53	2-253	4537	136,12	3,53
5-617	121	15,88	2,62	2-205	4042	10,69	3,53	2-254	4550	139,30	3,53
2-115	3068 122	17,13	2,62	2-206	4050	12,29	3,53	2-255	4562	142,47	3,53



Rif. USA	Rif. INGLESE	d	Corda	Rif. USA	Rif. INGLESE	d	Corda	Rif. USA	Rif. INGLESE	d	Corda
2-256	4575	145,65	3,53	2-348	6437 194	110,49	5,33	2-436	8587 220	148,60	6,99
2-257	4587	148,82	3,53	2-349	6450 195	113,67	5,33	2-437	8600 222	151,77	6,99
2-258	4600	151,99	3,53	2-350		116,84	5,33		223	155,60	6,99
2-259	4625	158,35	3,53		199	117,48	5,33	2-438	8625 224	158,12	6,99
2-260	4650	164,70	3,53	2-351		120,02	5,33		225	159,50	6,99
2-261	4675	171,05	3,53		201	120,70	5,33		226	161,90	6,99
2-262	4700	177,40	3,53	2-352		123,20	5,33	2-439	8650 227	164,47	6,99
2-263	4725	183,75	3,53		203	123,80	5,33		228	166,70	6,99
2-264	4750	190,10	3,53	2-353		126,37	5,33		229	168,30	6,99
2-265	4775	196,44	3,53		206	127,00	5,33	2-440	8675 230	170,82	6,99
2-266	4800	202,79	3,53	2-354		129,54	5,33		231	174,60	6,99
2-267	4825	209,14	3,53		208	130,18	5,33	2-441	8700 232	177,17	6,99
2-268	4850	215,49	3,53	2-355		132,72	5,33		233	181,00	6,99
2-269	4875	221,84	3,53		210	133,35	5,33	2-442	8725 234	183,52	6,99
2-270	4900	228,19	3,53	2-356		135,90	5,33		235	187,30	6,99
2-271	4925	234,54	3,53		213	136,53	5,33	2-443	8750 236	189,87	6,99
2-272	4950	240,89	3,53	2-357		139,07	5,33		237	193,70	6,99
2-273	4975	247,24	3,53		215	139,70	5,33	2-444	8775 238	196,22	6,99
2-274	41000	253,59	3,53	2-358		142,24	5,33		239	199,80	6,99
2-275	41050	266,30	3,53		217	142,88	5,33	2-445	8800 240	202,57	6,99
2-276	41100	279,00	3,53	2-359		145,42	5,33		8825 241	208,92	6,99
2-277	41150	291,70	3,53		219	146,05	5,33	2-446	8850 242	215,27	6,99
2-278	41200	304,39	3,53	2-360		148,60	5,33		8875 243	221,62	6,99
2-279	41300	329,80	3,53		221	149,23	5,33	2-447	8900 244	227,67	6,99
2-280	41400	355,20	3,53	2-361	6600	151,77	5,33		8925 245	234,32	6,99
2-281	41500	380,60	3,53	2-362	6625	158,12	5,33	2-448	8950 246	240,67	6,99
2-282	41600	405,26	3,53	2-363	6645	164,47	5,33		8975 247	247,00	6,99
2-283	41700	430,66	3,53	2-364	6670	170,82	5,33	2-449	81000 248	253,57	6,99
2-284	41800	456,06	3,53	2-365	6700	177,17	5,33		81025 249	259,70	6,99
2-309		10,46	5,33	2-366	6720	183,52	5,33	2-450	81050 250	266,07	6,99
2-310		12,07	5,33	2-367	6745	189,87	5,33		81075 251	272,40	6,99
2-311		13,64	5,33	2-368	6775	196,22	5,33	2-451	81100 252	278,77	6,99
2-312		15,24	5,33	2-369	6795	202,57	5,33		81125	285,10	6,99
2-313		16,81	5,33	2-370	6820	208,92	5,33	2-452	81150 254	291,47	6,99
2-314		18,42	5,33	2-371	6850	215,27	5,33		81175 255	297,80	6,99
2-315		19,99	5,33	2-372	6870	221,62	5,33	2-453	81200 256	304,17	6,99
2-316		21,59	5,33	2-373	6895	227,97	5,33	2-454	81250 257	316,87	6,99
2-317		23,17	5,33	2-374	6920	234,32	5,33	2-455	81300 258	329,57	6,99
2-318		24,77	5,33	2-375	6945	240,67	5,33	2-456	81350 259	342,27	6,99
2-319		26,34	5,33	2-376	6975	247,02	5,33	2-457	81400 260	354,97	6,99
2-320		27,93	5,33	2-377	6995	253,57	5,33	2-458	81450 261	367,67	6,99
2-321		29,51	5,33	2-378	61050	266,07	5,33	2-459	81500 262	380,37	6,99
2-322		31,12	5,33	2-379	61100	278,77	5,33	2-460	81550 263	393,07	6,99
2-323		32,69	5,33	2-380	61150	291,47	5,33	2-461	81600	405,26	6,99
2-324		34,29	5,33	2-381	61200	304,17	5,33	2-462	81650	417,96	6,99
2-325	6150 143	37,47	5,33	2-382	61300	329,57	5,33	2-463	81700	430,66	6,99
2-326	6162 145	40,65	5,33	2-383	61400	354,97	5,33	2-464	81750	443,36	6,99
2-327	6175 148	43,82	5,33	2-384	61500	380,37	5,33	2-465	81800	456,06	6,99
2-328	6187 151	47,00	5,33	2-385	61600	405,26	5,33	2-466	81850	468,76	6,99
2-329	6200 154	50,16	5,33	2-386	61700	430,66	5,33	2-467	81900	481,46	6,99
2-330	6212 157	53,34	5,33	2-387	61800	456,06	5,33	2-468	81950	494,16	6,99
2-331	6225 160	56,52	5,33	2-388	61900	481,46	5,33	2-469	82000	506,86	6,99
2-332	6237 163	59,70	5,33	2-389	62000	506,81	5,33	2-470	82100	532,26	6,99
2-333	6250 166	62,87	5,33	2-390	62100	532,20	5,33	2-471	82200	557,66	6,99
2-334	6262 169	66,04	5,33	2-391	62200	557,61	5,33	2-472	82300	582,68	6,99
2-335	6275 172	69,22	5,33	2-392	62300	582,68	5,33	2-473	82400	608,08	6,99
2-336	6287 175	72,40	5,33	2-393	62400	608,08	5,33	2-474	82500	633,48	6,99
	178	74,63	5,33	2-394	62500	633,48	5,33	2-475	82600	658,88	6,99
2-337	6300 179	75,57	5,33	2-395	62600	658,88	5,33				
2-338	6312 180	78,74	5,33	2-425	8450 196	113,67	6,99				
	181	79,77	5,33		197	114,70	6,99				
2-339	6325 182	81,92	5,33	2-426	8462 198	116,84	6,99				
2-340	6337 183	85,09	5,33	2-427	8475 200	120,02	6,99				
2-341	6350 184	88,27	5,33	2-428	8487 202	123,20	6,99				
	185	89,69	5,33		204	124,60	6,99				
3-342	6362 186	91,44	5,33	2-429	8500 205	126,37	6,99				
2-343	6375 187	94,62	5,33	2-430	8512 207	129,54	6,99				
2-344	6387 188	97,80	5,33	2-431	5252 209	132,72	6,99				
	189	100,00	5,33		211	134,50	6,99				
2-345	6400 190	100,97	5,33	2-432	8537 212	135,90	6,99				
2-346	6412 191	104,14	5,33	2-433	8550 214	139,07	6,99				
2-347	6425 192	107,32	5,33	2-434	8562 216	142,24	6,99				
	193	109,54	5,33	2-435	8575 218	145,42	6,99				



*Monti & Barabino* S.p.A.

16149 Genova Sampierdarena (GE) - Via Buranello 85/R

Tel: +39010413341 - Fax: +39010414281

Web site: [www.montiebarabino.it](http://www.montiebarabino.it) - e-mail: [info@montiebarabino.it](mailto:info@montiebarabino.it)

