

Spett.le

Desmet Ballestra S.P.A.

Via Piero Portaluppi, 17

20138 MILANO

C.A. EGR. SIG. MASTROMATTEO

La Spezia 11/10/2012

CERTIFICATO DI CONFORMITA'(ref. UNI EN 10204 ref. 2.1) N°022
CERTIFICATE OF COMPLIANCE

Vs. Ordine / Your Reference	N°	121462	Comm.	C2F11A	del / dated	13/06/2012
Ns. DDT / Our Delivery Note	N°	745/TI			del / dated	08/10/2012
Posizione /Position	N°	01 - 06	Item:	B5C	Q.tà / Q.ty	VARIE
	N°	07 - 13		B5B		VARIE
	N°	14 - 21		B5F		VARIE
	N°	22 - 24		G5N		VARIE

Ns. commessa: **OV- 259/FD**
 Our job

Descrizione/ Description :

Pos.	01 - 06	Item:	B5C	FLAT GASKETS FOR FLANGES AS PER ASME 150 LB RF MATERIAL "C" SB-ATI-PV009/5
Pos.	07 - 13	Item:	B5B	FLAT GASKETS FOR FLANGES AS PER ASME 150 LB RF MATERIAL "B" SB-ATI-PV009/5
Pos.	14 - 21	Item:	B5F	FLAT GASKETS FOR FLANGES AS PER ASME 150 LB RF MATERIAL "F" SB-ATI-PV009/5
Pos.	22 - 24	Item:	G5N	SPIRAL WOUND GASKETS WITH EXTERNAL CENTERING RING AND INT. RING FOR FLANGES AS PER ASME 150 LB MATERIAL "N" TAB. SB-ATI-PV009/5
Pos.		Item:		
Pos.		Item:		
Pos.		Item:		
Pos.		Item:		
Pos.		Item:		

è stato prodotto in conformità all'ordine di acquisto e secondo le norme o disegni da questo citate.
is manufactured in conformity with the P.O. and in accordance with specifications and relevant drawings.

FASIT 400

High quality non-asbestos jointing sheet, based on kevlar® aramid fibres, lamellar graphite, mineral fillers and NBR elastomeric binder.
The embedded graphite composition provides excellent resistance to temperature and mechanical stress.



Applications

Suitable for saturated steam, fuels, lubricants, alkalis and weak acids. Especially recommended where dynamic loads are present, due to pressure and temperature cycles, or to external bending load on the joint.

Technical Data (typical values relate to 2 mm thickness)

Density	DIN 3754	1.75	g/cm ³
Service limits*:			
Max. continuous operating temperature with exhaust gases		370	°C
Max. continuous operating temperature with oils and fuels		330	°C
Max. continuous operating temperature with steam		250	°C
Max. operating pressure		100	bar
Compressibility	ASTM F36	7	%
Recovery	ASTM F36	50	%
Stress retention:	DIN 52913		
- 16 hrs, 300°C, 50 N/mm ²		25	N/mm ²
- 16 hrs, 175°C, 50 N/mm ²		30	N/mm ²
Tensile Strength (across grain)	DIN 52910	9	N/mm ²
Nitrogen permeability	DIN 3535/4	0.8	ml/min
Ignition loss	DIN 52911	50	%
Immersion test in ASTM Oil 3 for 5 hrs. at 150°C	ASTM F146		
- weight increase		5	%
- thickness increase		10	%
Immersion test in ASTM Fuel B for 5 hrs at 20°C	ASTM F146		
- weight increase		10	%
- thickness increase		5	%

* Max. temperature and pressure do not hold simultaneously and are reported for proper seating conditions and gasket design

References

ENI: approval for use with steam, oils, fuels, solvents, etc.

Tecnimont: approval for use with steam, oils, fuels, solvents, etc.

DIN 28091 FA-AC N-0, BS 7531 grade Y

Standard supply data

Colour:	black	
Sheet size:	1500 x 1500 mm	tolerance: +/- 50 mm
	(upon request: 1500x3000, 1500x4500 mm)	
Thickness:	from 0.3 to 5.0 mm	tolerance: +/- 10%
Surface finish:	4xA anti-stick coating on both sides. Graphite coating upon request	

Note: FASIT® jointing manufacture is quality assured in accordance with ISO 9001

Data here reported, corresponding to laboratory and field tests results, are meant as non-binding guideline for gasket selection. No guarantee claim can be inferred from them.

FASIT® OMNIA

Non-asbestos jointing sheet, composed of kevlar® aramid fibres and high temperature resistant mineral fillers, bonded with high ACN-content NBR rubber. The formulation gives the material excellent chemical stability and resistance to creep.



Applications

Universal use, gases, hydrocarbons, solvents, low pressure steam, mild acids and alkalis. Suitable for food industry, public utilities, water treatment plants, chemical plants, oil industry, etc.

Technical Data (values relate to 2 mm thickness)

Density	DIN 3754	~ 1.8	g/cm ³
Service limits*:			
Max. short term temperature		370	°C
Max. continuous operating temperature with non-aggressive media		320	°C
Max. continuous operating temperature with steam		200	°C
Max. operating pressure		100	bar
Compressibility	ASTM F36	8	%
Recovery	ASTM F36	min. 55	%
Stress retention: DIN 52913			
- 16 hrs, 300°C, 50 N/mm ²		min. 22	N/mm ²
- 16 hrs, 175°C, N/mm ²		min. 30	N/mm ²
Tensile Strength (across grain)	DIN 52910	min. 12	N/mm ²
Gas permeability (N ₂ , 40 bar, 30 N/mm ² , 200°C)	DIN 3535/4-28090	max. 0.05	mg/m ² sec
Ignition loss	DIN 52911	max. 30	%
Immersion test in ASTM Oil 3 for 5 hrs. at 150°C ASTM F146			
- weight increase		max. 10	%
- thickness increase		max. 5	%
Immersion test in ASTM Fuel B for 5 hrs at 20°C ASTM F146			
- weight increase		max. 10	%
- thickness increase		max. 5	%
- tensile strength		min. 7	N/mm ²
Gasket constants according to PVRC – ROTT test			
Gb		thick.: 1.5 mm	
a		6.4	N/mm ²
Gs		0.25	
		0.0011	N/mm ²

* Service limits are recommended for proper seating conditions and gasket design

Supply data:

Surface colour:	blue
Sheet size - Standard:	1500 x 1500 mm (upon request: 1500x3000, 1500x4500 mm) tolerance: +/- 50 mm
Thickness:	from 0.3 to 5.0 mm tolerance: +/- 10%
Surface finish:	4xA anti-stick coating or graphite powder Available upon request

References:

DIN-DVGW (gas industry), SVGW (gas industry), BAM (oxygen), HTB (high temp.), Germanische Lloyd (ship's systems), DuPont, ENI, Tecnimont, Italian Ministry of Defence (ship's systems), Nuovo Pignone, Fincantieri, Italian Railways, ELF, SNCF, etc. BS 7531 grade Y, DIN 28091 FA - A1 - 0

Note: FASIT® jointing manufacture is quality assured in accordance with ISO 9001

Data here reported, corresponding to laboratory and field tests results, are meant as non-binding guideline for gasket selection.



EUROGUARCO S.p.A. – V. Terralba, Lo. Pietralba di Arcola, 19021 La Spezia, Italy
Tel.: (+39) 0187 562611 - Fax: (+39) 0187 562955 - <http://www.euroguarco.com>

N°24.W/e.1004

GUAFLON virgin PTFE gasket sheet

100% pure PTFE skived sheets for gasket die-cutting

Applications

Suitable for use with aggressive media in the chemical, petrol-chemical, pharmaceutical, paper and food industry. Suitable for all chemicals, with the exception of molten alkali metals, fluorine gas, hydrogen fluoride and materials that may generate these.

Technical Data (values relate to 2 mm thickness)

Density	ASTM D 792	2.14 ÷ 2.18	g/cm ³
Service limits (recommended)*:	Continuous service temperature range	-200 ÷ +180	°C
	Max. service pressure	40	bar
	Chemical application range	0 ÷ 14	pH
Compressibility	ASTM F 36	7 ÷ 15	%
Recovery	ASTM F 36	30	%
Creep relaxation (20 N/mm ² , 100°C, 22 hrs)	ASTM F 38	60	%
Stress retention (30 N/mm ² , 150°C, 16 hrs)	DIN 28091-52913	> 12.5	N/mm ²
Tensile Strength	ASTM D 1457	> 12	N/mm ²
Gas permeability (N ₂ , 40 bar, 30 N/mm ²)	DIN 3535/4	< 0.2	ml/min
Compression Strength σ_{VO} Room Temp.:	DIN 28090	150	N/mm ²
" " σ_{BO} at 100°C:	"	60	N/mm ²
" " σ_{BO} at 180°C:	"	20	N/mm ²
Gasket factors: Min. gasket assembly stress $\sigma_{VU/0.1}$	DIN 28090	20	N/mm ²
Maintenance factor $m_{0.1}$		2	

* Service limits are indicated for proper assembly conditions and gasket design. Max. temperature and max. pressure must not occur simultaneously.

Supply data:

Colour: white
Standard sheet size: 1500 x 1500 mm
Standard thickness: from 1.0 to 3.0 mm tolerances according to DIN 28091

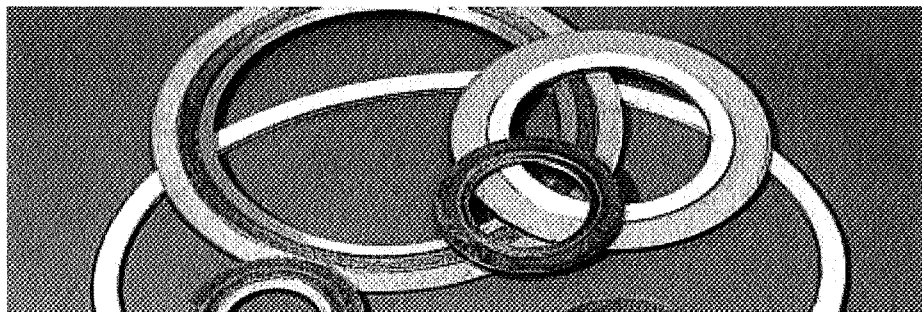
GUAFLON sheets are available also with insertion of tanged perforated stainless steel sheet

GUAFLON® jointing manufacture is quality assured in accordance with ISO 9001

Data here reported, corresponding to laboratory and field tests typical results, are meant as non-binding guideline for gasket selection. No guarantee claim can be inferred from these data. When needed, we shall be pleased to assist you with specific technical assistance.

Spiral-Wound Gaskets

SPW gaskets are suitable across a wide range of fluctuating service pressure – up to 250 bar – and temperature – from -200°C to 1000°C – depending on their construction. The sealing element consists of a V-shaped metal strip spirally wound in combination with a soft sealing material filler. The metal strip provides outstanding resilience, while the flexible sealing filler guarantees excellent sealing.



Style S - Basic construction type. Inner and outer diameters are reinforced with several plies of metal without filler to give greater stability and better compression and sealing characteristics. Suitable for tongue and groove or male and female or grooved to flat face flange assemblies.

Style ES - Utilizes an external ring which accurately centers gasket on flange face, provides additional radial strength to prevent gasket blow-out and acts as a compression stop. A general purpose gasket suitable for use with flat face and raised face flanges up class 600.

Style SI - Solid inner metal ring acts as a compression stop and fills the annular space between flange bore and the inside diameter of the gasket. Designed to prevent accumulation of solids, reduce turbulent flow of process fluids and minimize erosion at flange faces. Suitable for male and female flanges.

Style ESI – both outer and inner ring are present. Suitable for flat face and raised face flanges and specified for high pressure/temperature service - up to class 2500 or where corrosive or toxic media are present.

AVAILABLE METAL MATERIALS	AVAILABLE FILLER MATERIALS
Stainless Steel 304, 304L, 309, 310, , 316L, 316Ti, 317L, 321, 347, 430 CARBON STEEL MONEL®, TITANIUM, NICKEL 200 INCONEL® 600, INCONEL® 625, INCONEL® X-750 HASTELLOY® B2, HASTELLOY® C276 INCOLOY® 800, INCOLOY® 825 DUPLEX, ZIRCONIUM, TANTALUM, COPPER	GRAFLEX® flexible graphite PTFE, Non-sintered PTFE Beater addition, Ceramic

Spiral-wound gaskets can be manufactured in accordance with all relevant gasket standards (ASME, DIN, BS, etc.), as well as custom-tailored for use on non-standard flanges.

Gaskets of special design can be engineered and fabricated to cover a wide range of applications in installations for which there are no industry-wide standards. Special gaskets have been designed for valves, pumps, compressors, turbines, boilers, heat exchangers, etc. Consult with Euroguarco engineers as early in the design stage as possible.

Euroguarco gaskets are manufactured under Quality Assurance System certified according to ISO 9001

Data here reported correspond to laboratory and field tests typical results, and are meant as non-binding guideline for gasket selection. Therefore, no guarantee claim can be inferred from these data. When needed, we shall be pleased to assist you with specific technical assistance.

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Desmet Ballestra S.P.A.

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20138 MILANO

C.A. EGR. SIG. MASTROMATTEO

La Spezia 23/10/2012

CERTIFICATO DI CONFORMITA' (ref. UNI EN 10204 ref. 2.1) N°024
CERTIFICATE OF COMPLIANCE

Vs. Ordine / Your Reference	N°	121866	Comm.	C2F11A	del / dated	01/08/2012
Ns. DDT / Our Delivery Note	N°	783/TI			del / dated	22/10/2012
Posizione / Position	N°	01 - 03	Item:	B5B	Q.tà / Q.ty	VARIE
	N°	04 - 06		B5F		VARIE

Ns. commessa: **OV- 310/FD**
 Our job

Descrizione/ Description :

Pos.	01 - 03	Item:	B5B	FLAT GASKETS FOR FLANGES AS PER ASME 150 LB RF MATERIAL "B" SB-ATI-PV009/5
Pos.	04 - 06	Item:	B5F	FLAT GASKETS FOR FLANGES AS PER ASME 150 LB RF MATERIAL "F" SB-ATI-PV009/5
Pos.		Item:		
Pos.		Item:		
Pos.		Item:		
Pos.		Item:		
Pos.		Item:		
Pos.		Item:		
Pos.		Item:		

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FASIT 400

High quality non-asbestos jointing sheet, based on kevlar® aramid fibres, lamellar graphite, mineral fillers and NBR elastomeric binder. The embedded graphite composition provides excellent resistance to temperature and mechanical stress.



Applications

Suitable for saturated steam, fuels, lubricants, alkalis and weak acids. Especially recommended where dynamic loads are present, due to pressure and temperature cycles, or to external bending load on the joint.

Technical Data (typical values relate to 2 mm thickness)

Density	DIN 3754	1.75	g/cm ³
Service limits*:			
Max. continuous operating temperature with exhaust gases		370	°C
Max. continuous operating temperature with oils and fuels		330	°C
Max. continuous operating temperature with steam		250	°C
Max. operating pressure		100	bar
Compressibility	ASTM F36	7	%
Recovery	ASTM F36	50	%
Stress retention:	DIN 52913		
- 16 hrs, 300°C, 50 N/mm ²		25	N/mm ²
- 16 hrs, 175°C, 50 N/mm ²		30	N/mm ²
Tensile Strength (across grain)	DIN 52910	9	N/mm ²
Nitrogen permeability	DIN 3535/4	0.8	ml/min
Ignition loss	DIN 52911	50	%
Immersion test in ASTM Oil 3 for 5 hrs. at 150°C	ASTM F146		
- weight increase		5	%
- thickness increase		10	%
Immersion test in ASTM Fuel B for 5 hrs at 20°C	ASTM F146		
- weight increase		10	%
- thickness increase		5	%

* Max. temperature and pressure do not hold simultaneously and are reported for proper seating conditions and gasket design

References

ENI: approval for use with steam, oils, fuels, solvents, etc.
Tecnimont: approval for use with steam, oils, fuels, solvents, etc.
DIN 28091 FA-AC N-0, BS 7531 grade Y

Standard supply data

Colour:	black	
Sheet size:	1500 x 1500 mm (upon request: 1500x3000, 1500x4500 mm)	tolerance: +/- 50 mm
Thickness:	from 0.3 to 5.0 mm	tolerance: +/- 10%
Surface finish:	4xA anti-stick coating on both sides. Graphite coating upon request	

Note: FASIT® jointing manufacture is quality assured in accordance with ISO 9001

Data here reported, corresponding to laboratory and field tests results, are meant as non-binding guideline for gasket selection. No guarantee claim can be inferred from them.



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N°24.W/e.1004

GUAFLON virgin PTFE gasket sheet

100% pure PTFE skived sheets for gasket die-cutting

Applications

Suitable for use with aggressive media in the chemical, petrol-chemical, pharmaceutical, paper and food industry. Suitable for all chemicals, with the exception of molten alkali metals, fluorine gas, hydrogen fluoride and materials that may generate these.

Technical Data (values relate to 2 mm thickness)

Density	ASTM D 792	2.14 ÷ 2.18	g/cm ³
Service limits (recommended)*: Continuous service temperature range			
		-200 ÷ +180	°C
	Max. service pressure	40	bar
	Chemical application range	0 ÷ 14	pH
Compressibility	ASTM F 36	7 ÷ 15	%
Recovery	ASTM F 36	30	%
Creep relaxation (20 N/mm ² , 100°C, 22 hrs)	ASTM F 38	60	%
Stress retention (30 N/mm ² , 150°C, 16 hrs)	DIN 28091-52913	> 12.5	N/mm ²
Tensile Strength	ASTM D 1457	> 12	N/mm ²
Gas permeability (N ₂ , 40 bar, 30 N/mm ²)	DIN 3535/4	< 0.2	ml/min
Compression Strength σ_{VO} Room Temp.:	DIN 28090	150	N/mm ²
" " σ_{BO} at 100°C:	"	60	N/mm ²
" " σ_{BO} at 180°C:	"	20	N/mm ²
Gasket factors: Min. gasket assembly stress $\sigma_{VU/0.1}$	DIN 28090	20	N/mm ²
Maintenance factor $m_{0.1}$		2	

* Service limits are indicated for proper assembly conditions and gasket design. Max. temperature and max. pressure must not occur simultaneously.

Supply data:

Colour: white
Standard sheet size: 1500 x 1500 mm
Standard thickness: from 1.0 to 3.0 mm tolerances according to DIN 28091

GUAFLON sheets are available also with insertion of tanged perforated stainless steel sheet

GUAFLON® jointing manufacture is quality assured in accordance with ISO 9001

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C.A. EGR. SIG. MASTROMATTEO

La Spezia 11/10/2012

CERTIFICATO DI CONFORMITA'(ref. UNI EN 10204 ref. 2.1) N°021
CERTIFICATE OF COMPLIANCE

Vs. Ordine / Your Reference	N°	121463	Comm.	C2F11A	del / dated	13/06/2012
Ns. DDT / Our Delivery Note	N°	746/TI			del / dated	08/10/2012
Posizione /Position	N°	01 - 04	Item:	B4C	Q.tà / Q.ty	VARIE
	N°	05		A9D		VARIE
	N°	06 - 10		A9C		VARIE
	N°	11		B18C		VARIE
	N°	12 - 13		B2C		VARIE

Ns. commessa: **OV- 257/FD**
Our job

Descrizione/ Description :

Pos.	01 - 04	Item:	B4C	FLAT GASKET FOR FLANGES AS PER ASME 150+600 LB LARGE MALE & FEMALE MATERIAL "C" SB-ATI-PV009/5
Pos.	05	Item:	A9D	FULL FACE GASKETS WITH HOLES FOR BOLTS FOR FLANGES AS PER DESMET BALLESTRA STD SB-ATI-PF001./PF012 MATERIAL "D" SB-ATI-PV009/5
Pos.	06 - 10	Item:	A9C	FULL FACE GASKETS WITH HOLES FOR BOLTS FOR FLANGES AS PER DESMET BALLESTRA STD SB-ATI-PF001./PF012 MATERIAL "C" SB-ATI-PV009/5
Pos.	11	Item:	B18C	FLAT GASKETS FOR FLANGES AS PER DESMET-BALLESTRA STANDARD SB-ATI-PF002 ./PF004 ./PF027 MATERIAL "C" SB-ATI-PV009/5
Pos.	12 - 13	Item:	B2C	FLAT GASKETS FOR FLANGES AS PER EN 1092-1 PN 2.5 PN 6 MATERIAL "C" SB-ATI-PV009/5
Pos.		Item:		
Pos.		Item:		
Pos.		Item:		
Pos.		Item:		

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CERAMIC FIBER FELT
CERAFELT

Cerablanket is a light weight, flexible batting made from bulk ceramic fiber interlocked to form a strong resilient insulation. It is manufactured by a unique wet felting process which removes unfiberised shot from the fiber to produce the cleanest, most efficient ceramic fiber felt available.

The higher densities of this product mean better thermal insulation than the standard range of felts can offer. Strengths are also higher both before and after heat treatment (loss of organic binder).

Applications

- Lining of boiler combustion chambers
- Expansion joints
- High temperature kiln and furnace insulation
- lagging of small capacity foundry ladles
- Heat shields (aluminium faced)
- Acoustic and thermal insulation for (exhaust) pipes
- Various die-cut seals
- Back-up insulation (complex geometrical surfaces)
- Fire-fighting insulation: bulkhead, fire barrier door, lagging

Technical Data

Composition	SiO ₂	51.8 %
	Al ₂ O ₃	48.0 %
	CaO and MgO	< 0.5 %
Max. operating temperature (ENV 1094-3)		1260°C
Color		white
Density Kg/m ³		270
Thermal conductivity at 200°C	W/m°K	0,07
at 400°C	"	0,10
at 600°C	"	0,19
at 800°C	"	0,28
at 1000°C	"	0,35
Tensile strength: longitudinal	KPa	200
Ignition loss after 24 hours at 1100°C		< 1.1 %
Oil reaction ASTM D.471 - oil n. 3		none
Smoke Optical density ASTM E 662		ZERO

Standard supply conditions

In sheets of standard size 1250 x 1000 mm, in thickness: 3 - 6 - 9- 12 - 18 - 25 - 30 mm

Also available in rolls of 12 and 25 m.

Available as standard with aluminium foil faced (width 500 mm)

Carton standard dimensions: 1280 x 1040 x 100 mm

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Applications

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Technical Data (values relate to 2 mm thickness)

Density	DIN 3754	~ 1.8	g/cm ³
Service limits*:			
Max. short term temperature		370	°C
Max. continuous operating temperature with non-aggressive media		320	°C
Max. continuous operating temperature with steam		200	°C
Max. operating pressure		100	bar
Compressibility	ASTM F36	8	%
Recovery	ASTM F36	min. 55	%
Stress retention: DIN 52913			
- 16 hrs, 300°C, 50 N/mm ²	min.	22	N/mm ²
- 16 hrs, 175°C, N/mm ²	min.	30	N/mm ²
Tensile Strength (across grain)	DIN 52910	min. 12	N/mm ²
Gas permeability (N ₂ , 40 bar, 30 N/mm ² , 200°C)	DIN 3535/4-28090	max. 0.05	mg/m ² sec
Ignition loss	DIN 52911	max. 30	%
Immersion test in ASTM Oil 3 for 5 hrs. at 150°C ASTM F146			
- weight increase	max.	10	%
- thickness increase	max.	5	%
Immersion test in ASTM Fuel B for 5 hrs at 20°C ASTM F146			
- weight increase	max.	10	%
- thickness increase	max.	5	%
- tensile strength	min.	7	N/mm ²
Gasket constants according to PVRC – ROTT test			
Gb	thick.: 1.5 mm	6.4	N/mm ²
a		0.25	
Gs		0.0011	N/mm ²

* Service limits are recommended for proper seating conditions and gasket design

Supply data:

Surface colour:	blue
Sheet size - Standard:	1500 x 1500 mm (upon request: 1500x3000, 1500x4500 mm) tolerance: +/- 50 mm
Thickness:	from 0.3 to 5.0 mm tolerance: +/- 10%
Surface finish:	4xA anti-stick coating or graphite powder Available upon request

References:

DIN-DVGW (gas industry), SVGW (gas industry), BAM (oxygen), HTB (high temp.), Germanische Lloyd (ship's systems), DuPont, ENI, Tecnimont, Italian Ministry of Defence (ship's systems), Nuovo Pignone, Fincantieri, Italian Railways, ELF, SNCF, etc. BS 7531 grade Y, DIN 28091 FA - A1 - 0

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