EUROPIPING ®
Industrial Technologies

UNI EN ISO 9001:2000
REG. N. 7685/02

GRAPHITE GASKET MATERIAL

TECHNICAL DATA SHEET

EUROGRAPH ET316

APPLICATION

Production of sheets in graphite tanged is necessary as the alternative to asbestos for very HIGH TEMPERATURE, DIATHERMIC OIL, SUPERHEATED STEAM recommended for POWER GENERATION and PETROCHEMICAL INDUSTRIES. Standard used Material: graphite with purity 98,5% stainless steel 316/L insert.
On request: Graphite with purity 99,9% plus Inconel, Monel, Nickel and Titanium insert.

ISO-9001

PROPERTIES	U.M.	METHOD	VALUES
Pressure Max Continuous	Bar	/	**200**
Temperature Min	°C	/	**- 200**
Temperature Max Continuous	°C	OXIDISING/INERT	**+ 550/700**
Factor (m) (y)	(-------) (kg, cm^3)	/	**(2) (60)**
Tensile Strength	MPa	ASTM-F152	**20**
Density	gr/cm^3	ASTM C-559	**1.1**
Compressibility	%	ASTM F36	**35**
Recovery	%	ASTM F36	**15-20**
Sealability	ml/hr	ASTM F37	**0.5**

On 1.5 mm thick sample

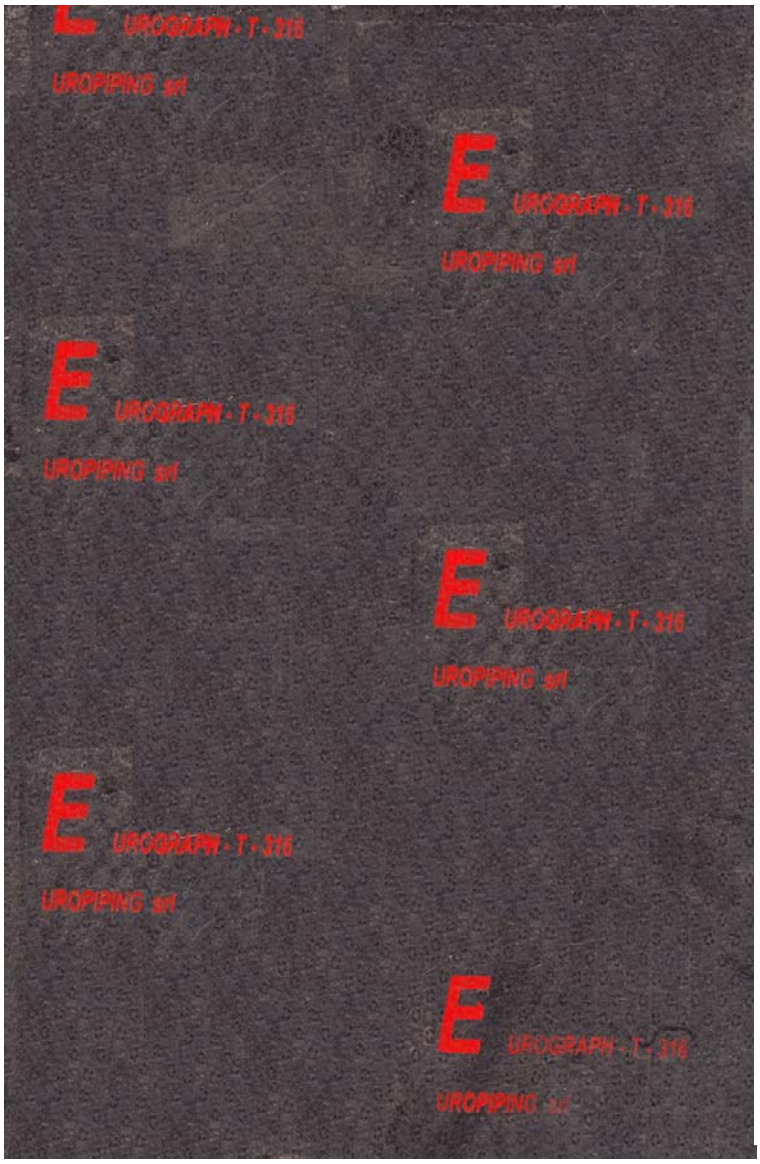
The data we are herewith providing are all based on manufacturer testing and are proposed to technical designers as possible and useful advices. Deviations from the values here above indicated may occur, but they do not constitute themselves either detriment of quality or reason for rejection.

REV. 02	14 February 2002

Sheet thicknesses: **0.8 ÷ 4 mm**
Tolerance:
for thickness < 1 mm: ± 0.1 mm
for thickness ≥ 1 mm: ± 10%

Sheet size: **standard** **1,000 x 1,000 mm**
1,500 x 1,500 mm
On request: 1,500 x 3,000 mm
Tolerance: ± 50 mm

Available surface finish:
adhesive



ET316

EGT316

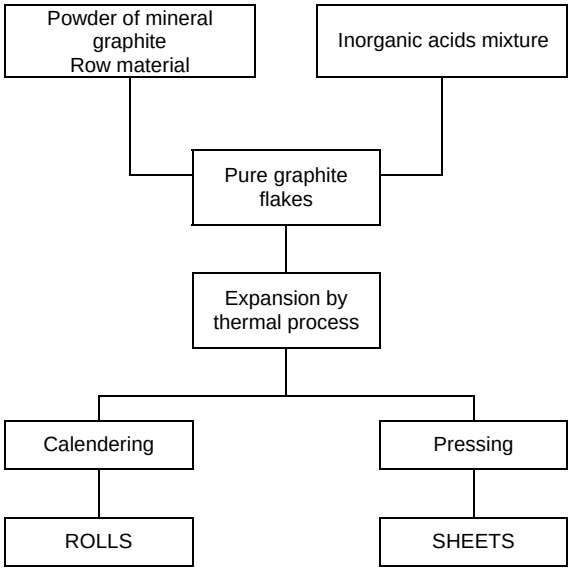
EF316

EFT316

EPG

DIMENSIONS							
Sheet dim.	1,000 x 1,000 mm 1,500 x 1,500 mm 1,500 x 3,000 mm	**Sheet thk.**	0.8-1.0 1.5-2.0 3.0 mm	**Rolls dim.**	1 x 30 mt 1 x 50 mt	**Rolls thk.**	0.25 mm 0.40 mm

MANUFACTURING PROCESS OF SHEETS AND LAMINATED IN MINERAL FLEXIBLE GRAPHITE (EUROGRAPH)



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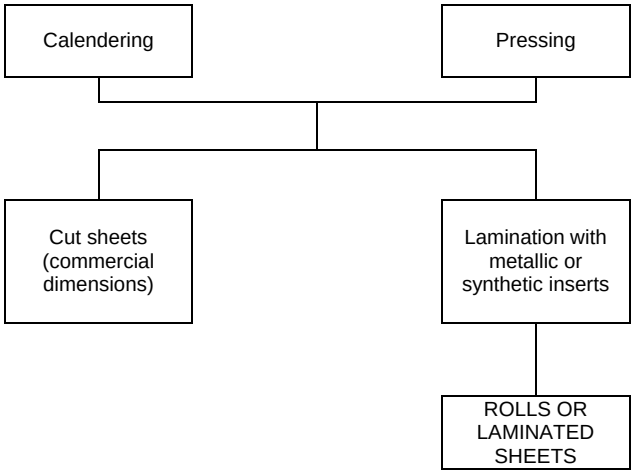

COMPARISON TABLE OF TYPICAL FLAT GASKET MATERIAL

PARAMETER	U.M.	ASBESTOS	ARAMIDIC FIBERS	CARBO FIBERS	GRAPHITE
M VALUE	-	3 – 4	2 – 3	2 – 3	2
Y VALUE	psi	1600 – 6500	1600 – 5000	1600 – 5000	900
SEALABILITY	mml/hr	1.00	0.2	0.1	0.2
COMPRESSIBILITY	%	10	15	17	40-20
RECOVERY	%	55	57	50	20-50
CREEP RELAXATION	%	23	21	15	5
DENSITY	gr/cmc	2	2	1.6	1.1-1.3
TEMERATURE MAX	°F	750	700	900	5000
PRESSURE MAX	psi	1800	1200	2000	3000
PxT FACTOR	°F x psi	350,000	350,000	700,000	1,000,000