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# EUROGRAPH

## Reinforced graphite sheets





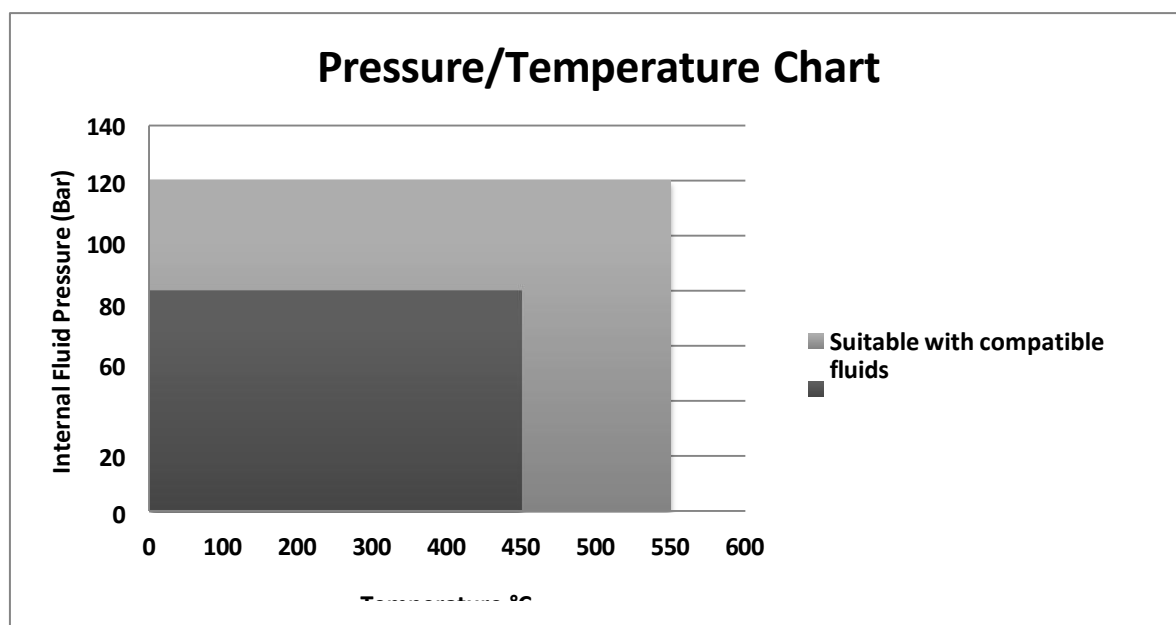
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## EUROGRAPH, Reinforced Graphite Gasket Sheet

EUROGRAPH reinforced graphite sheets are manufactured using a patented technology. The graphite is chemically and thermally treated to achieve a very high carbon content (99.5%), resulting in an extremely low level of impurities (ash, sulphur, chlorine).

The manufacturing process also makes it possible to obtain graphite with controlled and precise density and thickness (standard deviation < 3%). The reinforcement(s) can be made of perforated stainless steel AISI 316L, our standard option, or perforated stainless steel AISI 430, a more economical solution that is not suitable for aggressive environments.

EUROGRAPH is available in sheet form with widths of 1000 or 1500 mm, thicknesses from 1 to 5 mm, and lengths of up to 3 meters..





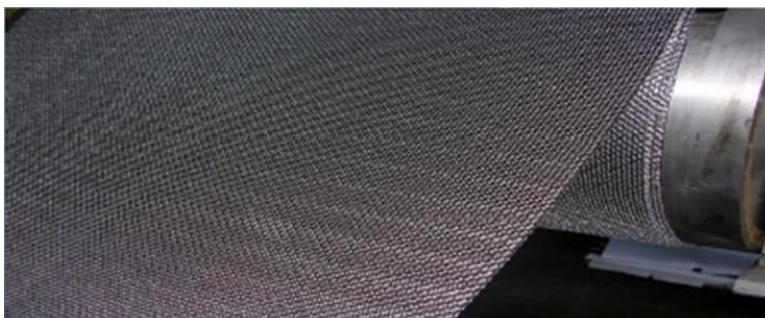
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Carbon content, weight %		> 99
Ash content, weight %	ASTM C561	< 1,0
Chlorine content, ppm	ASTM C816	< 40
Sulfure content, ppm	ASTM C816	< 100
Graphite Density (g/cc)	ASTM C559	1
Tensile strength, MPA	ASTM F152	> 48 MPA
Compressibility, %	ASTM F36A	> 30 %
Recovery, %	ASTM F36A	17%

Typical Value for a thickness of 2 mm (.080")

## Main characteristics and properties :

- High graphite purity (99.5%). By reducing the level of impurities, mass loss during exposure to high temperatures is minimized, providing a clear advantage for gasket sealing performance.
- Low permeability to gases and liquids.
- Meets the requirements of applications subject to thermal shock, such as heat exchangers.
- Binder-free. EUROGRAPH does not exhibit ageing effects (stress retention) such as those encountered with Klingerite-type gaskets, for example.
- No hazard to health or the environment.
- Universal. The graphite used in EUROGRAPH is chemically resistant to most media, with the exception of strong oxidizing agents (see chemical compatibility chart).
- Optional anti-oxidation treatment available on request.
- Easy to cut using modern technologies such as waterjet cutting.
- Large stock quantities available at our facilities to meet urgent requirements.
- Custom-size production available to optimize nesting and reduce waste during large-scale production. Sheets up to 1500 × 3000 mm can be supplied for the manufacture of one-piece gaskets without joints.





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## Chemical compatibility EUROGRAPH

Y : Suitable for application  
O : Suitability depend on conditions  
N : Incompatible / Not suitable

Chemicals	EURO GRAPH	Chemicals	EURO GRAPH	Chemicals	EURO GRAPH
Acetic acid glacial	Y	Ethylene	Y	Perchloric acid	N
Acetone	Y	Ethylene chloride	Y	Petroleum	Y
Acetylene	Y	Fatty acids	Y	Phenol	Y
Acrylic acid	Y	Ferric chloride m	O	Phosgene	Y
Acrylonitrile	Y	Fluorine	Y	Phosphoric acid (concentrated)	Y
Air	Y	Fluorosilicic acid	Y	Phosphoric acid (dilute)	Y
Alkaline lye	Y	Formaldehyde	Y	Phosphorous	O
Aluminum chloride	Y	Formic acid 0,85	Y	Phthalic anhydride	Y
Ammonia gas	Y	Formic acid 0,1	Y	Potassium hydroxide	Y
Ammonia	Y	Freons	Y	Potassium nitrate	Y
Amyl acetate	Y	Gas oil	Y	Potassium permanganate	Y
Amyl alcohol	Y	Gasoline	Y	Producer gas	Y
Aniline	Y	Heating oil	Y	Pyridine	Y
Aqua-regia	N	Hydraulic oil (glycol)	Y	Sea water	Y
Aviation fuel	Y	Hydraulic oil (mineral)	Y	Silicone oil	Y
Beer	Y	Hydraulic oil (phosphate)	Y	Soda ash	Y
Benzene	Y	Hydrazine	Y	Sodium bi-carbonate	Y
Benzoyl chloride	Y	Hydrocarbons (aromatic)	Y	Sodium carbonate	Y
Biphenyl	Y	Hydrocarbons aliphatic (sat.)	Y	Sodium cyanide	Y
Blast furnace gas	Y	Hydrocarbons aliphatic (unsat.)	Y	Sodium hydroxide -0,4	Y
Bleach (solution)	Y	Hydrochloric acid (37%)	Y	Sodium hydroxide (dilute)	Y
Boiler feed water	Y	Hydrofluoric acid	Y	Sodium hypochlorite	Y
Brine	Y	Hydrogen	Y	Sodium nitrate	Y
Bromine	O	Hydrogen chloride	Y	Starch	Y
Calcium chlorate	Y	Hydrogen fluoride	Y	Steam	Y
Capro-lactam	Y	Hydrogen peroxide	O	Steam condensate	Y
Carbolic Acid	Y	Hydrogen sulfide	Y	Styrene	Y
Carbon dioxide	Y	Isopropyl acetate	Y	Sulphur	Y
Carbon disulphide	Y	Isopropyl alcohol	Y	Sulphur dioxide	Y
Carbon monoxide	Y	Kerosene	Y	Sulphur trioxide	N
Carbon tetrachloride	Y	Lime	Y	Sulphuric acid (concentrated)	N



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Chile saltpetre	Y	Lubrication oil	Y	Sulphuric acid (fuming)	N
Chlorine dry	Y	Machine oil	Y	Tar	Y
Chlorine wet	Y	Magnesium sulphate	Y	Turpentine	Y
Chlorinated hydrocarbons	Y	Malic acid	Y	Toluene	Y
Chloroacetic acid	Y	Methane	Y	Towns gas	Y
Chloro benzene	Y	Methyl acrylate	Y	Transformer oil	Y
Chromic acid	O	Methyl alcohol	Y	Tributyl phosphate	Y
Copper sulphate	Y	Methyl isobutyl ketone	Y	Triethanolamine	Y
Creosote	Y	Methyl methacrylate	Y	Urea	Y
Cresol	Y	Methylene chloride	Y	Vegetable Oil	Y
Crude oil	Y	Mineral oil	Y	Vinyl acetate	Y
Cyclohexanol	Y	Mobiltherm	Y	Vinyl chloride	Y
1,4-Dichlorobenzene	Y	Naphthalene	Y	Vinylidene chloride	Y
Diesel Oil	Y	Natural gas	Y	Water	Y
Dowtherm	Y	Nitric acid (concentrated)	O	Water condensate	Y
Dye Liquor	Y	Nitric acid (fuming)	N	Water distilled	Y
Ethyl acetate	Y	Nitrogen	Y	Whisky	Y
Ethyl alcohol	Y	Oleum	N	Wine	Y
Ethylene glycol	Y	Oxygen	O	White Spirit	Y
Ethylene oxide	Y	Paraffin	Y	Xylene	Y
Ethyl ether	Y	Pentachlorophenol	Y		