

### PRODUCT DATA SHEET

#### 1.0 SCOPE

- 1.1 This specification describes 455EU sheet gasket which is a general service rubber sheet gasket.
- 1.2 Product 455EU is manufactured for power generation, pulp and paper, water, petrochemical and chemical industry and is specifically designed for general applications, water applications and paper stock applications.

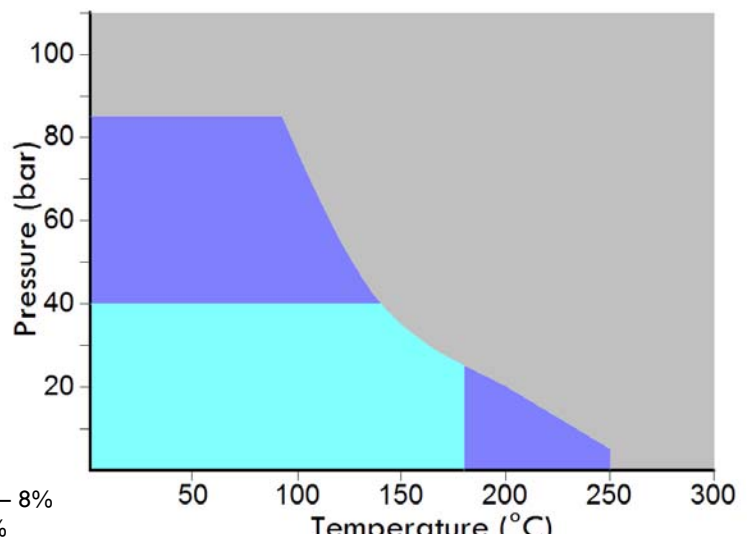
#### 2.0 CONTENT AND CONSTRUCTION

- 2.1 Content
  - 2.1.1 Aramid fibres
  - 2.1.2 NBR
- 2.2 Construction
  - 2.2.1 A rubber sheet gasket with aramid fibre filler.
- 2.3 Color
  - 2.3.1 Light blue with black print

#### 3.0 TYPICAL PROPERTIES

- 3.1 Pressure and temperature capabilities

	resistant
	resistant, but ensure that proper installation procedures are followed
	generally not resistant, consult engineering



*Pressure and temperature capabilities are an indication only.  
Always consult Chesterton application engineering when in doubt.*

- 3.2 Physical properties

- 3.2.1 Compressibility (ASTM F36/J) – 8%
- 3.2.2 Recovery (ASTM F36/J) – 55%
- 3.2.3 Tensile strength (DIN 52910) – 11 Mpa
- 3.2.4 Stress resistance (DIN 52913)
  - 16h, 300°C, 50 MPa – 22 MPa
  - 16h, 175°C, 50 MPa – 28 MPa
- 3.1.7 Seal ability (DIN 3535/6) – 0.05 mg/(s\*m)
- 3.1.8 Thickness increase (ASTM F146)
  - Oil IRM 903, 5h, 150°C – 5%
  - ASTM Fuel B, 5h, 23°C – 5%

- 3.3 Chemical properties

- 3.3.1 This material can be used in water, salt solutions, hydrocarbons, alcohols, oils and gases up to temperatures.

- 3.4 Approvals

- 3.4.1 455EU has a DVGW and KTW approval

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**CHEMICAL RESISTANCE TABLE**

A Compatible

B Moderately compatible

C Not compatible

Acetamide	A	Ethyl acetate	B	Oleic acid	A
Acetic acid 10%	A	Ethyl alcohol	A	Oleum	C
Acetic acid 100%	A	Ethyl chloride	B	Oxalic acid	B
Acetic ester	B	Ethylene	A	Oxygen	A
Acetone	B	Ethylene glycol	A	Palmitic acid	A
Acetylene	A	Formic acid 10%	A	Pentane	A
Adipic acid	A	Formic acid 85%	A	Perchloroethylene	B
Air	A	Formaldehyde	A	Phenol	C
Alum	A	Freon 12	A	Phosphoric acid	A
Aluminium acetate	A	Freon 22	B	Potassium acetate	A
Aluminium chlorate	A	Fuel oil	A	Potassium bicarbonate	A
Aluminium chloride	A	Gasoline	A	Potassium carbonate	A
Ammonia	A	Glycerine	A	Potassium chloride	A
Ammonium bicarbonate	A	Heptane	A	Potassium dichromate	A
Ammonium chloride	A	Hydraulic oil (Mineral)	A	Potassium hydroxide	A
Ammonium hydroxide	A	Hydraulic oil		Potassium iodide	A
Amyl acetate	B	(phosphate ester type)	B	Potassium nitrate	A
Aniline	C	Hydraulic oil (glycol based)	A	Potassium permanganate	A
Asphalt	A	Hydrazine	A	Propane	A
Barium chloride	A	Hydrochloric acid 20%	B	Pyridine	C
Benzene	A	Hydrochloric acid 36%	C	Salicylic acid	A
Benzoic acid	A	Hydrofluoric acid 10%	C	Silicone oil	A
Boric acid	A	Hydrofluoric acid 40%	C	Soap	A
Borax	A	Hydrogen	A	Sodium aluminate	A
Butane	A	Isobutane	A	Sodium bicarbonate	A
Butyl alcohol	A	Isooctane	A	Sodium bisulphite	A
Butyric acid	A	Isopropyl alcohol	A	Sodium carbonate	A
Calcium chloride	A	Kerosene	A	Sodium chloride	A
Calcium hydroxide	A	Lead acetate	A	Sodium cyanide	A
Carbon disulphide	C	Lead arsenate	A	Sodium hydroxide	B
Carbon dioxide	A	Magnesium sulphate	A	Sodium sulphate	A
Chloroform	B	Malic acid	A	Sodium sulphide	A
Chlorine, dry	A	Methane	A	Starch	A
Chlorine, wet	B	Methanol	A	Steam	A
Chromic acid	B	Methyl chloride	B	Stearic acid	A
Citric acid	A	Methylene dichloride	C	Sugar	A
Copper acetate	A	Methyl ethyl ketone	B	Sulphuric acid 20%	B
Creosote	C	Milk	A	Sulphuric acid 96%	C
Cresol	B	Mineral oil type ASTM no.1	A	Tar	A
Cyclohexanol	A	Naphtha	A	Tartaric acid	A
Cyclohexanone	B	Nitric acid 20%	B	Toluene	A
Decaline	A	Nitric acid 40%	B	Transformer oil	A
Dibenzyl ether	C	Nitric acid 96%	C	Trichlorethylene	B
Dimethyl formamide	C	Nitrobenzene	C	Water	A
Dowtherm	B	Nitrogen	A	White Spirit	A
Ethane	A	Octane	A	Xylene	B

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