

Data / Specification Sheet • Novus HDS-1

Novus HDS-1 is a superior performance high dielectric strength universal compressed sheet gasket material, based on a blend of aramid / inorganic fibres and special additives with a high quality nitrile rubber binder system.

Service

Novus HDS-1 is a superior performance material with excellent mechanical properties, it is suitable for many applications including oils, solvents, high pressure steam and gases including oxygen. Novus HDS-1 has very high dielectric strength which makes it an ideal insulating material.

Approvals / Compliance

Complies with BS Specification 7531 Grade X

TA-LUFT
(in accordance with VDI 2440)

Availability

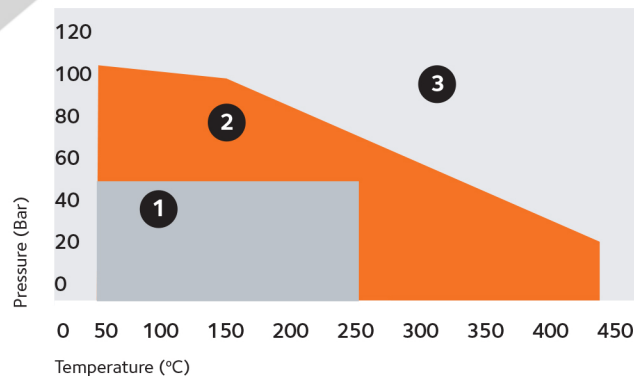
Thickness range:
0.5mm to 6.0mm

Standard sheet sizes:
2.0m x 1.5m

Physical properties

Thickness		1.5mm
Density		1.75g/cc
Tensile Strength	ASTM F152	15MPa
Compression	ASTM F36	9%
Recovery	ASTM F36	55% min
Residual Stress	BS 7531 (300°C)	26MPa
	DIN 52913	32MPa
Gas Leakage	BS 7531	<1.0cc/min
ASTM Oil 1	Thickness increase	1.0%
IRM 903 Oil	Thickness increase	2.5%
ASTM Fuel B	Thickness increase	3.0%
Dielectric Strength	ASTM D149-95a	22-28 kv/mm

Novus HDS-1 Pressure/Temperature Limits



- 1 Suitable subject to chemical compatibility.
- 2 Suitable in some cases but check your application requirements with Flexitallic.
- 3 Contact the Technical Team for applications with higher temperatures and pressures. Applicable to 1.5mm and below.

The operating temperature of non-asbestos sheet material is related to the thickness of materials selected. Thinner materials give better temperature and pressure properties.

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