

C4430 JOINTING

Klingersil® C4430 represents a new standard in compressed synthetic fibre gasket materials. This premium quality steam grade jointing has outstanding stress relaxation properties and excellent chemical, air, water, oil, fuel and gas resistance. Meets British Standard **BS7531 Grade X** for Rubber Bonded Fibre Jointing for Industrial and Aerospace Purposes.

The 3XA Anti-stick coating on both sides aids flange separation, reducing installation time. It also removes the need for application of grease or sealants which may cause gasket failure.

Technical Data

Please note that these figures are provided as guidelines only. These limits do not necessarily operate together for all gasket thicknesses and service conditions. All temperatures & pressures are dependent on chemical compatibility; refer to KLINGER chemical compatibility chart or KLINGERexpert™ PC design software.

Density	1.75 g/cm ³
Compressibility ASTM F36J	9%
Recovery ASTM F36J (min)	50%
Stress Relaxation DIN 52913	
50 MPa, 16hours @ 175°C	39 MPa
50 MPa, 16hours @ 300°C	35 MPa
Stress Relaxation BS7531	
40 MPa, 16hours @ 300°C	31 MPa
KLINGER Cold/Hot Compression Test @ 50 MPa	
Thickness decrease 23°C	8%
Thickness decrease 300°C	11%
Tightness according DIN3535/6	< 0.1 mg/s x m
Tightness Class L DIN 28090-1	0.1
Specific Leak Rate λ VDI 2440 <i>mbar x l/s x m</i>	2.13E-05
Cold Compression DIN 28091-2	6 - 10%
Cold Recovery DIN 28091-2	2 - 4%
Hot Compression DIN 28091-2	7%
Hot Recovery DIN 28091-2	1%
Spring Back R DIN 28091-2	0.019mm
Thickness Increase after Fluid Immersion ASTM F146	
Oil IRM 903: 5hours @ 150°C	3%
Fuel B 5hours @ 23°C	5%
Average Surface Resistance R_{OA}	Ω 4.1x10E13
Average Specific Volume Resistance ρD	Ω cm 4.5x10E12
Average Dielectric Strength	21.3 kV/mm
Average Power Factor, 1 kHz, ca. 2mm thick	0.02 tan δ
Average Dielectric Coefficient, 1 kHz, ca. 2mm thick	6.4 ϵr
Thermal Conductivity	0.42 W/mk
ASME-Code Sealing Factors for 2mm thick	
Tightness Class 0.1 mg/s x m MPa	y = 25 m = 5

**Note: Test standards used are universally accepted for testing non-asbestos materials.
KLINGERSIL & C-4430 ARE TRADE MARKS OF KLINGER LTD**



Quality first solutions

Phone: 1300 098 060

Visit : www.agaus.com.au

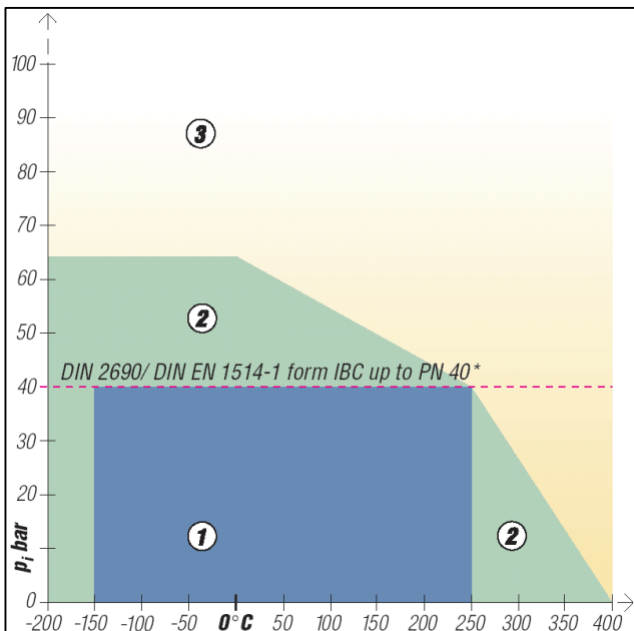
THIS INFORMATION SHOULD NOT BE TREATED AS A SUBSTITUTE FOR SPECIFIC TECHNICAL ADVICE. ASSOCIATED GASKETS DOES NOT GIVE SUCH ADVICE & CANNOT WARRANT THE PERFORMANCE OR SUITABILITY OF PRODUCTS FOR PARTICULAR APPLICATIONS.

C4430 JOINTING

Tests and Approvals

- Firesafe - BS5146
- Approved to AS4020 - Products for use in contact with drinking water
- AGA Certified to 4623-2008 Class III, Pressure 2 MPa
- BAM approval in accordance with UVV28, Oxygen (VGB 62) tested up to 100 bar and 85°C
- Approved for gas supply in accordance with DIN 3535/6
- Approved for Gas Supply to DIN 3535/6, DIN - DVGW permit NG 5123AN0418 (German Gas & Water Association)
- Drinking Water - SVGW permit, KTW recommended (Germany)
- Lab. National d' Essais 9030144
- WRC approval (Water Research Council, UK)
- Germanischer Lloyd General Shipping - Lloyds (Germany)
- Meets BS7531 Grade X
- TA Luft (Clean Air) approval, tested in accordance with VDI 2440 at 250°C

KLINGER pT Diagram



The Klinger pT diagram provides guidelines for determining the suitability of a particular gasket material for a specific application based on the operating temperature and pressure only. Additional stresses such as fluctuating load may significantly affect the suitability of a gasket in the application and must be considered separately. Always refer to the chemical resistance of the gasket to the fluid.

1. In area one, the gasket material is normally suitable subject to chemical compatibility.
2. In area two, the gasket materials may be suitable but a technical evaluation is recommended. Always refer to the chemical resistance of the gasket to the fluid.
3. In area three, do not install the gasket without a technical evaluation. Always refer to the chemical resistance of the gasket to the fluid.

Sizes

Sheet Size: 2000mm x 1500mm others on request

Sheet Tolerance: ±50mm

Thicknesses: 0.25mm, 0.4mm, 0.5mm, 0.8mm, 1mm, 1.5mm, 2mm, 3mm

Thickness Tolerance: ±10%

Construction

Optimum combination of synthetic and glass fibres bonded with NBR.

NOTES: TECHNICAL DETAILS ARE SUBJECT TO CHANGE WITHOUT NOTICE. THIS DATA IS AN EXTRACT FROM KLINGER DATA ISSUED IN NOVEMBER 2012. KLINGERSIL & C-4430 ARE TRADE MARKS OF KLINGER LTD



Quality first solutions

Phone: 1300 098 060

Visit : www.agaus.com.au

THIS INFORMATION SHOULD NOT BE TREATED AS A SUBSTITUTE FOR SPECIFIC TECHNICAL ADVICE. ASSOCIATED GASKETS DOES NOT GIVE SUCH ADVICE & CANNOT WARRANT THE PERFORMANCE OR SUITABILITY OF PRODUCTS FOR PARTICULAR APPLICATIONS.

0430R30213AGDOCg