Uni Klinger Compressed gasket materials







Typical Specifications

Rritish BS 1832 Grade A & O German DIN 375-4 IT 400 ASTM F104-F112 551 M8 American NFT48001 Cat. D.

Material Description

Top quality service sheet for steam, gas, water, alkaline media, non-agressive solvents and many other chemicals such as aliphatic alcohols, esters, ketones and amines composed of SBR binder and high grade chrysotile asbestos. Colour:Red/Brown.

Typical Original Properties (1.5mm)

Minimum tensile		
Strength (cross grain)	ASTM F152	35 N/mm²
Specific gravity		1.95 gm/cm ³
Compressibility	ASTM F36A	8%
Recovery	ASTM F36A	55%
Stress relaxation	BS 1832	30 N/mm²

Operating Guidelines

below*) 550°C

(see note

Max. Temperature Max. Pressure 130 bar (Indian Standard

IS 2712 / 1998 : Gr. W/1 & 0/1)

Typical Properties after Fluid Immersion (1.5mm)

Thickness increase

5 hours 150°C ASTM Oil 3 20% 5 hours 20°C 0-10% ASTM Fuel A ASTM Fuel B 5 hours 23°C 15%

UKL[®] Universal 3XA



Material Description

Top quality universal sevice sheet suitable for nearly all media such as : hydrocarbons, alkalines and medium strong acids. Composed of NBR binder and high grade chrysotile asbestos. Particularly suitable for use in aviation industry,

+ Do not retorque fasteners at cryogenic temperatures

Typical Original Properties (1.5mm)

Strength (cross grain) ASTM F152 Specific gravity ASTMF36A Compressibility Recovery ASTMF36A

Operating (see note Guidelines below*)

Max. Temperature 550°C Max. Pressure 140 bar Min. Temperature -200°C

(Indian Standard

ÌS 2712 / 1998 : Gr. 01 & W/1)

Typical Specifications

BS 1832 Grade A and O British BS F125 (Types 1 and 3) German

DIN 3754 IT 400 DIN 3754 IT C DIN 3754 IT O

ASTMF104-F112121 M8 American French NFT 48001 Cat. D

Minimum tensile 42 N/mm² 1.95 gm/cm3 8% 55% Stress relaxation BS 1832 30 N/mm

Typical Properties after Fluid Immersion (1.5mm)

Thickness increase

ASTM Oil 3 5 hours 150°C 8% ASTM Fuel A 5 hours 20°C 0-10% ASTM Fuel B 5 hours 23°C 12%

UKL®1000



Typical Specifications

There are no standards to cover wire reinforced materials however refer to UKL, 3 X A for typical properties

Material Description

Top grade material based on UKL 3XA but reinforced with wire mesh for demanding and extreme services. Especially suitable and recommended for condition of fluctuating pressures and temperatures, i.e. when steam hammers might occur or in automotive applications. Composed of SBR binder and high grade chrysotile asbestos. Delivered with graphited surfaces. Colour: Graphite black

Typical Original Properties (1.5mm)

Minimum tensile strength (cross grain) Specific gravity	ASTM F152	33 N/mm² 2.1 gm/cm²
Compressibility	ASTMF36A	8%
Recovery	ASTMF36A	50%
Stress relaxation	BS 1832	31 N/mm²

Operating Guidelines

below*) Max. Temperature 550°C Max. Pressure 200 bar

(see note

Typical Properties after Fluid Immersion (1.5mm)

As there are no standards to cover wire reinforced materials, refer to UKL 3XA for typical properties

UKL® Oilit 3XA



Material Description

Top quality oil and petrol resistant material suitable for fuels, oils, solvents including aromatic and chlorinated hydrocarbons for high mechanical and thermal demand. Excellent resistance and compatibility for natural and town gas, water, steam, alkalines, mild acids and many other chemicals.

Composed of chrysotile asbestos and NBR binder. Also available in metallic Colour : Black.

† Do not retorque fasteners at cryogenic temperatures

Operating Guidelines Max. Temperature

below*) 500°C 130 bar -200°C

(see note

Min. Temperature (Indian Standard

Max. Pressure

IS 2712 / 1998 : Gr. 0/1 & W/1)

Typical Specifications

British German DIN 3754 IT O NFT 48001 Cat. D.

BS 1832 Grade A and O ASTM F104-F112120 M8 Approved by the Water Research Council for use with potable water

Typical Original Properties (1.5mm)

Minimum tensile Strength (cross grain) Specific gravity	ASTM F152	38 N/mm2 1.95 gm/cm ⁵
Compressibility	ASTMF36A	8%
Recovery	ASTMF36A	55%
Stress relaxation	BS 1832	30 N/mm²

Typical Properties after Fluid Immersion (1.5mm)

Thickness increase

5 hours 150°C ASTM Oil 3 0-10% 5 hours 20°C ASTM Fuel A 5 hours 23°C ASTM Fuel B



(see note

below*)

400°C

100 bar

(see note

below*)

350°C

35 bar

(see note

45%

30%

below*)

270°C

25 bar





Typical Specifications

British German American

DIN 3754 IT S ASTM F104-F112000 NFT 48001 Cat. E.

Material Description

High quality acid resistant material based on chrysotile asbestos and special binders compatible with strong organic and inorganic acids. Widely used in the chemical industry.

8%

Colour: White

Typical Original Properties (1.5mm)

Minimum tensile

Strength (cross grain) ASTM F152 30 N/mm² Specific gravity 1.90 gm/cm3 Compressibility ASTMF36A Recovery ASTMF36A 50% **Operating** Guidelines

Max. Temperature Max. Pressure

(Indian Standard IS 2712 / 1998 : Gr. A/1)

Typical Properties after Fluid Immersion (1.5mm)

Thickness increase

96% Sulphuric acid Not suitable 95% Nitric acid 15% 50% Nitric acid

UKL® 80



Typical Specifications

British American BS 1832 Grade B ASTM F104-F112700

Material Description

Medium quality for general purpose use. Contains chrysotile asbestos fibre bonded with SBR. Also available in metallic

Colour: Red/Brown

Minimum tensile Strength (cross grain)

Specific gravity Compressibility Recovery

Typical Original Properties (1.5mm)

13 N/mm² ASTM F152 2 gm/cm³ ASTMF36A 8% 50% ASTMF36A

Operating Guidelines

Max. Temperature

(Indian Standard ÌS 2712 / 1998 : Gr. W/3)

Typical Properties after Fluid Immersion (1.5mm)

Thickness increase

ASTM Oil 3 5 hours 150°C 25% ASTM Fuel A 5 hours 20°C 5-20% 15% 5 hours 23°C ASTM Fuel B

UKL® KLR - 232



Typical Specifications



Material Description

A Medium Range General Purpose Gasket Jointing For Steam, Water and Gas Application. Colour : Red / Black

Typical Original Properties (1.5mm)

Minimum tensile

Strength (cross grain) 8 N/mm² ASTM F152 Specific gravity 2.15 gm/cm³ Compressibility ASTMF36A 8% Recovery ASTMF36A 40%

Tolerances

Operating Guidelines

Max. Temperature Max. Pressure

(Indian Standard IS 2712 / 1998 : Gr. W/3)

Typical Properties after Fluid Immersion (1.5mm)

Thickness increase 5 hours 150°C ASTM Oil 3 ASTM Fuel A 5 hours 23°C ASTM Fuel B

Tolerances

Nominal Sheet Size	Standard		Reinforced	
	Width (mm)	Length (mm)	Width (mm)	Length (mm)
1.5 X 4.0 M	1510 to 1475	4100 to 3800	1500 to 1450	4100 to 3800
1.5 X 2.0 M	1510 to1475	2040 to 1975	1500 to 1450	2040 to 1975
1.5 X 1.5 M	1510 to 1475	1510 to 1475	1500 to 1450	1510 to 1475
1.5 X 1.0 M	1510 to 1475	1020 to 975	1500 to 1450	1020 to 975

Nominal Thickness

		within one sheet.
Up to and including 0.5 mm	Plus or Minus 0.05 mm	0.05 mm
Over 0.5 mm, Up to and including 1.0 mm	Plus or Minus 0.10 mm	0.10 mm
Over 1.0 mm, Up to and including 2.0 mm	Plus or Minus 0.15 mm	0.15 mm
Over 2.0 mm	Plus or Minus 0.20 mm	0.20 mm

Special Tolerances on request.



Maximum variation