











# Uni Klinger -

## Non Asbestos Compressed Gasket Sheets

	Description	Operating Guidelines	Temp.*	Typical application	Typical properties	Typical values	Typical properties	Typical values
	<b>UKL® CI 18</b> Asbestos free universal gasket material for general applications.	Max. temperature Max. temperature for steam Max. pressure	200 Deg C 150 Deg C 50 Bar	Gasket material for liquids and gases. Good chemical resistance against water and oil. Resistant to refrigerants. Low gas leakage. A good product to wide range of industrial applications. <b>Also available in metallic.</b>	Minimum tensile strength N/mm2 Density gm/cm3 Compressibility % Recovery % Stress relaxation Mpa Gas leakage ml/min	ASTM F 152 10 1.75 8 55 22 0.5	Thickness increase % ASTM Oil 3 ASTM Fuel B Weight increase % ASTM oil 3 ASTM Fuel B Ignition Loss % (max)	5 hrs 150 Deg C 5 hrs 23 Deg C 5 12 10 30
	<b>UKL® CI 22</b> Asbestos free gasket material based on Aramid Fibre with NBR binder Confirms to Grade Y as per BS 7531.	Max. temperature Max. temperature for steam Max. pressure	250 Deg C 200 Deg C 50 Bar	A premium quality product with good resistance to hot water, hot oil and hydrocarbon applications. Resistant to refrigerants. A good product for industrial applications. <b>Also available in metallic.</b>	Minimum tensile strength N/mm2 Density gm/cm3 Compressibility % Recovery % Stress relaxation Mpa Gas leakage ml/min	ASTM F 152 10 1.75 8 50 22 1.0	Thickness increase % ASTM oil 3 ASTM Fuel B Weight increase % ASTM oil 3 ASTM Fuel B Ignition Loss % (max)	5 hrs 150 Deg C 5 hrs 23 Deg C 8 8 10 10 30
	<b>UKL® CI 24</b> Asbestos free grade made from combination of synthetic fibers with NBR binder Confirms to Grade Y as per BS 7531.	Max. temperature Max. temperature for steam Max. pressure	300 Deg C 250 Deg C 100 Bar	A quality grade material with high thermal resistance and suitable for use with oils, water, gases, acids and alkalies, hydrocarbons & steam applications.	Minimum tensile strength N/mm2 Density gm/cm3 Compressibility % Recovery % Stress relaxation Mpa Gas leakage ml/min	ASTM F 152 11 1.65 8 50 22 1.0	Thickness increase % ASTM oil 3 ASTM Fuel B Weight increase % ASTM oil 3 ASTM Fuel B Ignition Loss % (max)	5 hrs 150 Deg C 5 hrs 150 Deg C 5 10 10 30
	<b>UKL® CI 31</b> Asbestos free gasket material based on Aramid Fibre with NBR binder. Confirms to Grade Y as per BS 7531.	Max. temperature Max. temperature for steam Max. pressure	350 Deg C 200 Deg C 100 Bar	Gasket material for general use with good chemical and mechanical properties. Suitable for use with oils, water, gases, weak acids and alkalies. Recommended for OEM applications.	Minimum tensile strength N/mm2 Density gm/cm3 Compressibility % Recovery % Stress relaxation Mpa Gas leakage ml/min	ASTM F 152 12 1.60 11 55 25 1.0	Thickness increase % ASTM oil 3 ASTM Fuel B Weight increase % ASTM oil 3 ASTM Fuel B Ignition Loss % (max)	5 hrs 150 Deg C 5 hrs 23 Deg C 3 5 10 10 35
	<b>UKL® CI 32</b> A quality grade Asbestos free material based on combination of Aramid fibers with NBR binder Confirms to Grade X as per BS 7531.	Max. temperature Max. temperature for steam Max. pressure	300 Deg C 280 Deg C 130 Bar	A quality grade material suitable for use with oils, water, gases, weak acids and alkalies & steam applications. <b>Also available in metallic.</b>	Minimum tensile strength N/mm2 Density gm/cm3 Compressibility % Recovery % Stress relaxation Mpa Gas leakage ml/min	ASTM F 152 11 1.75 8 50 25.5 1.0	Thickness increase % ASTM oil 3 ASTM Fuel B Weight increase % ASTM oil 3 ASTM Fuel B Ignition Loss % (max)	5 hrs 150 Deg C 5 hrs 150 Deg C 6 6 8 8 35
	<b>UKL® CI 33</b> Asbestos free gasket material based on Aramid Fibre with NBR binder. Confirms to Grade X as per BS 7531.	Max. temperature Max. temperature for steam Max. pressure	400 Deg C 280 Deg C 150 Bar	Gasket material with high thermal resistance. Good for general media use. Suitable for use with oil, water, gases, weak acids alkalies and hydrocarbons. Mainly recommended for steam applications.	Minimum tensile strength N/mm2 Density gm/cm3 Compressibility % Recovery % Stress relaxation Mpa Gas leakage ml/min	ASTM F 152 11 1.75 8 50 26 1.0	Thickness increase % ASTM oil 3 ASTM Fuel B Weight increase % ASTM oil 3 ASTM Fuel B Ignition Loss % (max)	5 hrs 150 Deg C 5 hrs 23 Deg C 8 8 8 8 35
	<b>UKL® CI 35</b> Premium quality Asbestos free gasket based on Aramid Fibre with NBR binder Confirms to Grade X as per BS 7531.	Max. temperature Max. temperature for steam Max. pressure	400 Deg C 240 Deg C 100 Bar	A Premium quality grade gasket material with good chemical & mechanical properties. Suitable for oil, fuels, hydrocarbon and refrigerants. Recommended for petrochemical industries and OEM. <b>Also available in metallic.</b>	Minimum tensile strength N/mm2 Density gm/cm3 Compressibility % Recovery % Stress relaxation Mpa Gas leakage ml/min	ASTM F 152 9 1.8 9 55 29 1.0	Thickness increase % ASTM oil 3 ASTM Fuel B Weight increase % ASTM oil 3 ASTM Fuel B Ignition Loss % (max)	5 hrs 150 Deg C 5 hrs 23 Deg C 3 5 10 10 35
	<b>UKL® CI 51</b> Asbestos free gasket material based on carbon Fibre with NBR binder. Confirms to Grade X as per BS 7531.	Max. temperature Max. temperature for steam Max. pressure	400 Deg C 250 Deg C 100 Bar	Material with excellent resistance to steam and strongly alkaline media. Also suitable for use in acids and alkalis. Recommended in chemical and petrochemical industries & OEM.	Minimum tensile strength N/mm2 Density gm/cm3 Compressibility % Recovery % Stress relaxation Mpa Gas leakage ml/min	ASTM F 152 10 1.60 11 55 29 1.0	Thickness increase % ASTM oil 3 ASTM Fuel B Weight increase % ASTM oil 3 ASTM Fuel B Ignition Loss % (max)	5 hrs 150 Deg C 5 hrs 23 Deg C 3 5 10 10 30
	<b>UKL® CI 73</b> Asbestos free gasket material based on Aramid Fibre with synthetic elastomer binder.	Max. temperature Max. temperature for steam Max. pressure	210 Deg C 180 Deg C 100 Bar	Gasket material with Good chemical resistance. Designed for use with many acids and corrosive media. Largely used in chemical industry.	Minimum tensile strength N/mm2 Density gm/cm3 Compressibility % Recovery % Stress relaxation Mpa Gas leakage ml/min	ASTM F 152 10 1.65 8 50 22 1.0	Thickness increase % H <sub>2</sub> SO <sub>4</sub> , 96% H <sub>2</sub> SO <sub>4</sub> , 65% Ignition Loss % (max)	18 hrs / 23 Deg C 48 hrs / 23 Deg C 10 8 35
	<b>UKL® CI 1000 3XA</b> Top grade material reinforced with wire mesh made up from unique formulation of high temperature non-asbestos fibre including Aramid fibre and high quality nitrile rubber with graphite surface.	Max. temperature Max. temperature for steam Max. pressure	500 Deg C 480 Deg C 170 Bar	This grade has excellent resistance to steam, acids, alkali and many other chemicals. Most suitable for demanding & extreme services especially of fluctuating temperatures and pressures.	Minimum tensile strength N/mm2 Density gm/cm3 Compressibility % Recovery % Stress relaxation Mpa Gas leakage ml/min	ASTM F 152 14 2 8 45 25 3.0	Thickness increase % ASTM oil 3 ASTM Fuel B Weight increase % ASTM oil 3 ASTM Fuel B Ignition Loss % (max)	5 hrs 150 Deg C 5 hrs 150 Deg C 5 5 10 10 30

\*The information in this chart should only be used as a general guide to the selection of a suitable material. Maximum temperature & pressure capabilities do not necessarily operate together for all gasket thickness and service conditions. For wire reinforced materials Gas Leakage / Permeability : 3 ml/min.

## Tolerances

Nominal Sheet Size		Standard		Reinforced	
Width (mm)	Length (mm)	Width (mm)	Length (mm)	Width (mm)	Length (mm)
1500 X 4000 mm		1510 to 1475	4100 to 3800	1500 to 1450	4100 to 3800
1500 X 2000 mm		1510 to 1475	2040 to 1975	1500 to 1450	2040 to 1975
1500 X 1500 mm		1510 to 1475	1510 to 1475	1500 to 1450	1510 to 1475
1500 X 1000 mm		1510 to 1475	1020 to 975	1500 to 1450	1020 to 975

Nominal Thickness	Tolerances	Maximum variation 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

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**Also available : UKL Fluid Sealing Division:** Full Range of Cut gaskets, Spiral wound Gaskets, Metal Jacked Gaskets, Kammprofile Gaskets, Non Asbestos Gland Packing, Expanded PTFE sheets, Graphite Sheets, Graphite Roll & Slit Coil.

**Fluid Control Division:** Piston Valves, Bellow Sealed Valves. Steam Traps - Thermodynamic/Inverted Bucket/Bimetallic Thermostatic, Ball Float. Strainers "Y" Type, Level Gauges-Reflex & Transparent. Condensate Recovery System, Pressure Reducing Station, Hot Water Generation System.

In view of technical progress designs and dimensions are subject to change without notice.



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