












Uni Klinger

**Complete Non Asbestos Solution
Manufactured in India for the World**

	Description	Operating Guidelines	Temp.*	Typical application	Typical properties	Typical values	Typical properties	Typical values
	UKL® CI 4243 Gasket material made from Aramid fibers and elastomer binder suitable for general. Complies to Grade Y specifications as per BS 7531.	Max. temperature Max. temperature for steam Max. pressure	250 Deg C 160 Deg C 50 Bar	A quality product with good resistance to water, oil and gases A good product in industries for general applications.	Minimum tensile strength N/mm2 Density gm/cm3 Compressibility % Recovery % Stress relaxation Mpa Gas leakage ml/min	ASTM F 152 10 1.65 12 50 22 1.0	Thickness increase % ASTM oil 3 ASTM Fuel B Hot compression test Thickness Decrease %(max) Ignition Loss % (max)	5 hrs 150 Deg C 5 hrs 23 Deg C 23 Deg C 200 Deg C 4 6 15 22 30
	UKL® CI 4300 Gasket material made from Aramid fibers with NBR Binder Complies to Grade Y specifications as per BS 7531	Max. temperature Max. temperature for steam Max. pressure	250 Deg C 200 Deg C 50 Bar	Gasket material suitable for resistant to hot water, hot oil. Good chemical resistance A good product to wide range of industrial applications.	Minimum tensile strength N/mm2 Density gm/cm3 Compressibility % Recovery % Stress relaxation Mpa Gas leakage ml/min	ASTM F 152 9 1.60 14 50 23 1.0	Thickness increase % ASTM oil 3 ASTM Fuel B Hot compression test Thickness Decrease %(max) Ignition Loss % (max)	5 hrs 150 Deg C 5 hrs 23 Deg C 23 Deg C 200 Deg C 5 5 10 22 35
	UKL® CI 4401 Universal Gasket material made from Aramid fibers with NBR Binder.	Max. temperature Max. temperature for steam Max. pressure	400 Deg C 230 Deg C 100 Bar	Gasket material for with good chemical resistance and excellent sealability A good product to wide range of industrial applications.	Minimum tensile strength N/mm2 Density gm/cm3 Compressibility % Recovery % Stress relaxation Mpa Gas leakage ml/min	ASTM F 152 8 1.8 7 50 20 1.0	Thickness increase % ASTM oil 3 ASTM Fuel B Hot compression test Thickness Decrease %(max) Ignition Loss % (max)	5 hrs 150 Deg C 5 hrs 23 Deg C 23 Deg C 300 Deg C 5 10 14 17 35
	UKL® CI 4400 A Universal material based on combination of Aramid fibers with NBR binder. Complies to Grade Y specifications 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, alkalies and hydro carbons, lubricants & refrigerants 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 Hot compression test Thickness Decrease %(max) Ignition Loss % (max)	5 hrs 150 Deg C 5 hrs 23 Deg C 23 Deg C 300 Deg C 3 5 10 20 35
	UKL® CI 4430 An Optimum combination of Aramid fibers with NBR Binder. Complies to Grade X specifications 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, water, fuels, hydrocarbon. Outstanding stress relaxation with resistant to water & steam. Recommended for petrochemical industries and OEM.	Minimum tensile strength N/mm2 Density gm/cm3 Compressibility % Recovery % Stress relaxation Mpa Gas leakage ml/min	ASTM F 152 9 1.80 9 55 29 1.0	Thickness increase % ASTM oil 3 ASTM Fuel B Hot compression test Thickness Decrease %(max) Ignition Loss % (max)	5 hrs 150 Deg C 5 hrs 23 Deg C 23 Deg C 300 Deg C 3 5 8 11 35
	UKL® CI 4408 An optimum combination of Aramid fibers with NBR Binder, very robust because of wire reinforcement.	Max. temperature Max. temperature for steam Max. pressure	400 Deg C 250 Deg C 100 Bar	A Premium quality grade gasket material with good chemical & mechanical properties. Suitable for oil, fuels, hydrocarbon and steam application. Recommended for pulsating applications in petrochemical industries and OEM.	Minimum tensile strength N/mm2 Density gm/cm3 Compressibility % Recovery % Stress relaxation Mpa Gas leakage ml/min	ASTM F 152 12 2.0 9 55 29 3.0	Thickness increase % ASTM oil 3 ASTM Fuel B Hot compression test Thickness Decrease %(max) Ignition Loss % (max)	5 hrs 150 Deg C 5 hrs 23 Deg C 23 Deg C 300 Deg C 5 5 8 17 35
	UKL® CI 4500 With a premium quality grade non asbestos gasket material based carbon fiber and NBR binder. Complies to Grade X specifications 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, oils and gases. 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 Hot compression test Thickness Decrease %(max) Ignition Loss % (max)	5 hrs 150 Deg C 5 hrs 23 Deg C 23 Deg C 300 Deg C 3 5 10 15 30
	UKL® CI 8200 Good quality grade non asbestos gasket material based on Aramid & Glass fibers bonded with special acid-resistant elastomers.	Max. temperature Max. temperature for steam Max. pressure	210 Deg C 150 Deg C 80 Bar	Gasket material with Excellent 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 20 1.0	Thickness increase % ASTM oil 3 ASTM Fuel B Hot compression test Thickness Decrease %(max) Ignition Loss % (max)	96% H2SO4 & 65% H2SO4 5 hrs 150 Deg C 5 hrs 23 Deg C 23 Deg C 200 Deg C 6 6 7 15 35
	UKL® GS A Pure expanded graphite foil manufactured from purified natural Graphite flakes. UKL GS feature high dependability, even under demanding operating conditions.	Min. temperature Max. temperature for steam Max. pressure	-240 Deg C 460 Deg C 30 Bar	Pure Graphite has excellent chemical resistance & thermal properties & is extensively used in Automobile, Chemical, Oil & Gas, Petrochemical and steel industries. Application includes innumerable gases & fluids. Also available high purity graphite material.	Purity % Density gm/cm3 Compressibility % Recovery % Gas leakage ml/min Leachable chloride content (ppm) max	98 1.0 40 10 1.0 50		
	UKL® GSL/GPS A Multi-layered graphite sealing sheet with high strength made of 0.5 mm thickness layers of high purity graphite foil and stainless steel foil of 0.05 mm or 0.1 mm thickness.	Min. temperature Max. temperature for steam Max. pressure	-240 Deg C 460 Deg C 140 Bar	UKL GSL has an excellent Chemical resistance & Thermal properties. it is extensively used in Petrochemical, Steel, Chemical and Automobile industries for various applications. Tanged Stainless Steel Reinforcement available in UKL GPS.	Purity % Density gm/cm3 Compressibility % Recovery % Gas leakage ml/min Sulphur content (ppm) max	98 1.0 40 10 3.0 1200		
	UKL® Softchem Unisil soft-chem is a 100% pure expanded Material manufactured with special process that produces a uniform and highly fibrillated micro structure with a lot of fibers running in multi direction.	Min. temperature Max. temperature for steam Max. pressure	-240 Deg C 260 Deg C 3000 psi	Unisil soft-chem is a asbestos free material and meets the FDA requirements. Unisil softchem possesses universal resistance against common chemicals, except melted alkali metal, fluorine at liquid and gas states. Also suitable for oxygen applications. Excellent compensation of Irregularities of the Sealing Surface.	Minimum tensile strength N/mm2 Density gm/cm3 Compressibility % Recovery % Stress relaxation Mpa Sealability ml/min	DIN 52910 25 0.85 60 12 15 0.2		

*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.