










APPLICATION CHART – 5G FIBRE MATERIALS AND APPLICATION CHART – SPECIALIST MATERIALS



	NOVUS 10	NOVUS 30	NOVUS 34	NOVUS 45	NOVUS 49
DESCRIPTION	 Premium grade compressed sheet material based on carbon fibre with a high quality Nitrile rubber binder system.	 Compressed fibre sheet jointing with Aramid and inorganic fibres with NBR binder.	 Superior performance compressed fibre sheet jointing with Aramid and inorganic fibres and special additives with high quality NBR binder.	 A quality compressed sheet material, manufactured from aramid fibres bound with a high quality nitrile rubber.	 Compressed sheet material which combines a high percentage of graphite, reinforced with Aramid fibres and a small amount of rubber binder.
MAIN DUTIES	Especially suitable for use under alkaline conditions with good steam resistance. It also possesses excellent creep resistance and is suitable for use with oils, fuels and general hydrocarbon service.	General purpose, including hot and cold water, condensate and low pressure steam, oils, fuels, gases and a range of chemicals.	Superior performance material with excellent mechanical properties suitable for oils, solvents, intermediate pressure steam, gases and general chemicals.	General purpose material suitable for use with oils, solvents, gases, water, low pressure steam and most dilute acids and alkalis.	High performance material with excellent mechanical properties. It is suitable for many applications including oils, solvents, high pressure steam and gases including oxygen.
MAXIMUM TEMP	425°C	400°C	450°C	300°C	420°C
MAXIMUM PRESSURE	100 bar	80 bar	100 bar	60 bar	100 bar
APPROVALS	Complies with BS 7531 Grade X API 607 Fire Safe TA-LUFT (VDI guideline 2440)	WRAS Potable Water Complies with BS 7531 Grade Y	WRAS Potable Water BAM (Oxygen service) up to 90°C/160 bar Complies with BS 7531 Grade X TA-LUFT (VDI Guideline 2440) GL Approval cert 37702 – 12HH	TA-LUFT (VDI guideline 2440)	WRAS Potable Water BAM Oxygen Service up to 90°C/160 bar Complies with BS 7531 Grade X
UPGRADE FROM		Novus 20, Novus 21, Novus 40		Novus 25, Novus 27, Novus 31, Novus 47	

Please Note: That the indicated max working temperature and pressure values do not necessarily apply in unison.

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	THERMICULITE® 815	SIGMA® 500	SIGMA® 511	NOVUS TI
DESCRIPTION	 High temperature, chemically resistant sheet sealing material comprising chemically and thermally exfoliated vermiculite on a 316 stainless steel core.	 High performance bi-axially orientated PTFE sheet material with glass microspheres.	 High performance bi-axially orientated sheet sealing material containing PTFE with silica filler.	 Graphite laminate with 0.10mm 316 stainless steel tanged reinforcing core. Excellent mechanical strength.
MAIN DUTIES	Not susceptible to thermal oxidation and is suitable for very high temperature applications in presence of oxidising media. Conformable, resilient and has excellent gas and liquid sealing characteristics in thermal cycling. Suitable for use in high pressure, high temperature steam sealing applications. Chemically resistant and has excellent resistance to corrosion. Suitable for seawater service where exfoliated graphite could lead to galvanic corrosion.	Specifically designed for use in aggressive chemical service. Although suitable for use in all standard flanged connections it is particularly suited to low bolt loads such as glass lined, ceramic and plastic flanges. Suitable for sealing all chemicals across the whole pH range in both acid and alkali service (with the exception of molten alkali metals, fluorine gas, hydrogen fluoride). Other Sigma® products available refer to product brochure.	Suitable for sealing all chemicals across the whole pH range (0-14) with the exception of molten alkali metals, fluorine gas, hydrogen fluoride or materials which may generate these. Other Sigma® products available refer to product brochure.	Used throughout industry in pipeline and vessel applications and is ideal for intermediate and high pressure steam systems and process duties in the refining, petrochemical and manufacturing industries, however not suitable for sealing strong oxidising chemical media.
MAXIMUM TEMP	> 1000°C	260°C	260°C	450°C <i>(without presence of an oxidising agent)</i>
MAXIMUM PRESSURE	200 bar	85 bar	85 bar	120 bar
APPROVALS	API 607 4th edition	WRAS Potable Water Complies with FDA	WRAS Potable Water BAM - Oxygen Complies with FDA	DVGW BAM (Oxygen service) up to 90°C/160 bar
UPGRADE FROM	Graphite and Mica	Novus 27 (max 250°C), Novus 28, Novus 29, Novus 46 (max 260°C), Novus 48		

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