



DIRECT GASKETS LIMITED
UNITS 26 - 36
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TANGED GRAPHITE

DESCRIPTION

Graphite laminate is reinforced with one or more insertions of tanged 0.1mm thick 316 stainless steel. No adhesive is required to bond the graphite layers as the graphite material is fixed to the insert by small, sharp teeth. Resulting in a sturdy gasket material with excellent mechanical strength. We do not recommend manual cutting of gaskets.

SERVICE

Frequently used in flange connections for piping and machinery. With its wide temperature range and excellent stress retention it makes it extremely suitable for use in steam systems and process duties in the chemical and petrochemical and manufacturing industries etc. The high mechanical strength of the material ensures it can seal higher internal pressures than standard sheet materials.

Max recommended temperature : OPERATING -200 to +450°C

Max recommended temperature : OPERATING STEAM 400°C

Max recommended pressure : 12MPa / 120 BAR / 1716 PSI

These temperature and pressure guides cannot necessarily be used simultaneously and may not apply to all thicknesses.

APPROVALS/COMPLIANCE

BAM (Oxygen)

DVGW

ALL PRESSURES AND TEMPERATURES ARE SUBJECT TO INDIVIDUAL APPLICATION



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TYPICAL PHYSICAL PROPERTIES - TANGED

Thickness		1.5mm
Density		1.0 g/cc
Insert Thickness		0.1mm
Compression	ASTM F36J	30% to 37%
Recovery	ASTM F36J	20%
Residual Stress	BS7531 40N/mm ² @ 300°C	37 MPa
Gas Leakage	BS7531	<1.0 ml/min
Ash Content		1.0% max
Chloride Content		45 ppm max

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