



DESCRIPTION:	High temperat	ture, chemically	v resistant o	shoot so	alina met	terial cor	nnrisina
DESCRIFTION.	chemically an core.	d thermally exf	foliated veri	niculite (	on a 316	stainles	s steel
SERVICE:	Maximum Ser	vice Temperatu	ıre	980 <sup>0</sup> C	(1800 <sup>⁰</sup> F)		
	Maximum Ser		20 MPa (200 bar;2900 psi)				
	-	roduct is NOT i Flexpro gasket					
PROPERTIES:							
		e. high temperatu s and liquid sea			S.		
	* Good stress	retention.	-		5.		
		extremes of the				, m o o o liv	
	applications.	use in high pre	ssure, nign	tempera	iture stea	am seaill	ng
	* Chemically r						
	* Very low hal	oaen content c	ounled with	h a sulnh	ur froo c	urina ev	stom
				i u Suipii	ui nee c	uning sy	stem
	gives exceller	nt resistance to	corrosion.	-			
	gives exceller * Suitable for s	nt resistance to seawater servio	corrosion. ce. This co	ntrasts w	vith prod		
	gives exceller * Suitable for exfoliated gra	nt resistance to	corrosion. ce. This con Ivanic corro	ntrasts w	vith prod		
	gives exceller * Suitable for exfoliated gra	nt resistance to seawater servio phite where ga	corrosion. ce. This con Ivanic corro	ntrasts w	vith prod		
TYPICAL PHYSICAL PF	gives exceller * Suitable for s exfoliated gra * Not suscepti	nt resistance to seawater servio phite where ga	corrosion. ce. This con Ivanic corro	ntrasts w	vith prod		
	gives exceller * Suitable for s exfoliated gra * Not suscepti	nt resistance to seawater servio phite where ga	corrosion. ce. This con Ivanic corro	ntrasts w	vith prod		
Thickness (mm)	gives exceller * Suitable for s exfoliated gra * Not suscepti	nt resistance to seawater servic phite where ga ible to thermal gcm <sup>-3</sup>	corrosion. ce. This col lvanic corro oxidation.	ntrasts w osion cai	vith prod n occur.	ucts bas	ed on
Thickness (mm) Facing Density ASTM Compressibility	gives exceller * Suitable for exfoliated gra * Not suscepti	nt resistance to seawater servic phite where ga ible to thermal ble to thermal gcm <sup>-3</sup> %	corrosion. ce. This con lvanic corro oxidation. 0.75 1.2 33	ntrasts w osion car 1.5 1.2 44	vith prod n occur. 2.0 1.2 40	ucts bas 3.0 1.2 44	ed on 4.0 1.2 51
Thickness (mm) Facing Density ASTM Compressibility ASTM Recovery	gives exceller * Suitable for exfoliated gra * Not suscepti	nt resistance to seawater servic phite where ga ible to thermal ble to thermal gcm <sup>-3</sup> % %	corrosion. ce. This con lvanic corro oxidation. 0.75 1.2 33 13	ntrasts w osion car 1.5 1.2 44 9	vith prod n occur. 2.0 1.2 40 9	ucts bas 3.0 1.2 44 8	ed on 4.0 1.2 51 7
Thickness (mm) Facing Density ASTM Compressibility ASTM Recovery BS 7531 Gas Permeabi	gives exceller * Suitable for exfoliated gra * Not suscepti ROPERTIES	nt resistance to seawater servic phite where ga ible to thermal ble to thermal gcm <sup>-3</sup> % % mL/min	corrosion. ce. This con lvanic corro oxidation. 0.75 1.2 33 13 0.06	ntrasts w osion car 1.5 1.2 44 9 0.13	vith prod n occur. 2.0 1.2 40 9 0.15	3.0 1.2 44 8 0.17	ed on 4.0 1.2 51 7 0.14
Thickness (mm) Facing Density ASTM Compressibility ASTM Recovery BS 7531 Gas Permeabi BS 7531 Stress Retenti	gives exceller * Suitable for exfoliated gra * Not suscepti ROPERTIES	nt resistance to seawater servic phite where ga ible to thermal ble to thermal % % mL/min MPa	corrosion. ce. This con lvanic corro oxidation. 0.75 1.2 33 13	ntrasts w osion car 1.5 1.2 44 9 0.13 31	vith prod n occur. 2.0 1.2 40 9	ucts bas 3.0 1.2 44 8	ed on 4.0 1.2 51 7
Thickness (mm) Facing Density ASTM Compressibility ASTM Recovery BS 7531 Gas Permeabi BS 7531 Stress Retenti DIN 52913 Stress Reter	gives exceller * Suitable for exfoliated gra * Not suscepti ROPERTIES	nt resistance to seawater servic phite where ga ible to thermal ble to thermal mL/min MPa MPa MPa	corrosion. ce. This con lvanic corro oxidation. 0.75 1.2 33 13 0.06 34 -	ntrasts w osion car 1.5 1.2 44 9 0.13 31 35	vith prod n occur. 2.0 1.2 40 9 0.15	3.0 1.2 44 8 0.17	ed on 4.0 1.2 51 7 0.14
Thickness (mm) Facing Density ASTM Compressibility ASTM Recovery BS 7531 Gas Permeabi BS 7531 Stress Retenti DIN 52913 Stress Reten Sulphur Content	gives exceller * Suitable for exfoliated gra * Not suscepti ROPERTIES	nt resistance to seawater servic phite where ga ible to thermal ble to thermal mL/min MPa MPa ppm	corrosion. ce. This con lvanic corro oxidation. 0.75 1.2 33 13 0.06 34 - < 50	ntrasts w osion car 1.5 1.2 44 9 0.13 31 35 ppm	vith prod n occur. 2.0 1.2 40 9 0.15	3.0 1.2 44 8 0.17	ed on 4.0 1.2 51 7 0.14
Thickness (mm) Facing Density ASTM Compressibility ASTM Recovery BS 7531 Gas Permeabi BS 7531 Stress Retenti DIN 52913 Stress Reter	gives exceller * Suitable for exfoliated gra * Not suscepti ROPERTIES lity ion @ 300°C ntion @ 300°C	nt resistance to seawater servic phite where ga ible to thermal ble to thermal mL/min MPa MPa MPa	corrosion. ce. This con lvanic corro oxidation. 0.75 1.2 33 13 0.06 34 -	ntrasts w osion car 1.5 1.2 44 9 0.13 31 35 ppm	vith prod n occur. 2.0 1.2 40 9 0.15 26 -	3.0 1.2 44 8 0.17	ed on 4.0 1.2 51 7 0.14
Thickness (mm) Facing Density ASTM Compressibility ASTM Recovery BS 7531 Gas Permeabi BS 7531 Stress Retenti DIN 52913 Stress Retent Sulphur Content Chloride Ion Content	gives exceller * Suitable for exfoliated gra * Not suscepti ROPERTIES lity ion @ 300°C ntion @ 300°C 3mm) Thickness ran	nt resistance to seawater servic phite where ga ible to thermal ble to thermal mL/min MPa MPa ppm ppm W/cm/K	corrosion. ce. This con lvanic corro oxidation. 0.75 1.2 33 13 0.06 34 - < 50 p 5 mm to 4 n	ntrasts w osion car 1.5 1.2 44 9 0.13 31 35 opm opm	vith prod n occur. 2.0 1.2 40 9 0.15 26 -	3.0 1.2 44 8 0.17 17 -	ed on 4.0 1.2 51 7 0.14
Thickness (mm) Facing Density ASTM Compressibility ASTM Recovery BS 7531 Gas Permeabil BS 7531 Stress Retenti DIN 52913 Stress Retent Sulphur Content Chloride Ion Content Thermal Conductivity (	gives exceller * Suitable for exfoliated gra * Not suscepting ROPERTIES ROPERTIES fion @ 300°C ntion @ 300°C (3mm) Thickness ran Sheet size	nt resistance to seawater servic phite where ga ible to thermal ble to thermal mL/min MPa MPa ppm ppm W/cm/K	corrosion. ce. This con lvanic corro oxidation. 0.75 1.2 33 13 0.06 34 - < 50 p 5 mm to 4 n x 1m & 1.5	ntrasts w osion cai 1.5 1.2 44 9 0.13 31 35 ppm ppm nm x 1.5	vith prod n occur. 2.0 1.2 40 9 0.15 26 -	3.0 1.2 44 8 0.17 17 - 1.8x10 <sup>-3</sup>	ed on 4.0 1.2 51 7 0.14 12 -

Customers requiring the latest version of this Data Sheet should contact our Applications Engineering Department.

The information given and, in particular, any parameters, should be used for guidance purposes only. The Company does not give any warranty that the product will be suitable for the use intended by the customer

## HEALTH AND SAFETY

Because of the processes which take place during manufacture, the product is believed to present no health and safety hazard and, under normal handling and use it is unlikely that the product will give rise to significant levels of exposure to constituent materials.

Flexitallic Thermiculite 815 is a laminate comprising chemically and thermally exfoliated vermiculite reinforced with a tanged stainless steel core.

Under harsh mechanical treatment (e.g. high speed stamping operations or abrasion) the constituents may give rise to irritant dust which, in extreme cases of exposure, could lead to more serious respiratory problems. Occupational exposure to such dusts should therefore be minimised and kept below relevant national exposure limits. Good standards of hygiene should be applied during gasket cutting operations and off-cuts should be disposed of by transfer to a site appropriately licensed to accept industrial materials of this nature.

Vermiculite is not combustible.

Tanged steel may have very sharp edges; handle with care, particularly after cutting.

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