

KLINGERSIL® C-4500, Premium Grade High Pressure

KLINGERSIL® C-4500 is a premium grade, high pressure gasket manufactured with carbon fibers and special heat-resistant additives and reinforced with a nitrile binder. This material is designed for use in high temperature alkaline media and superheated steam, providing superior performance suitable in the pulp and paper and chemical industries.

TECHNICAL DATA SHEET | (EFFECTIVE 26FEB21)

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PHYSICAL PROPERTY	TEST METHOD	UNIT	VALUE
Color	--	--	Black
Composition	Carbon fiber and special heat-resistant additives and reinforced with a nitrile binder		
Creep Relaxation	ASTM F38B (1/32")	%	20
Sealability	ASTM F37A (1/32")	ml/hr	<0.3
Gas Permeability	DIN 3535/6	ml/min	<1.0
Compressibility	ASTM F36J	%	8 - 14
Recovery	ASTM F36J	% minimum	50
KLINGER Hot Compression Test			
Thickness Decrease	73°F (23°C)	% initial	12
Thickness Decrease	572°F (300°C)	% additional	10
Weight Increase after Immersion in:			
Fuel B, 5h/73°F (23°C)	ASTM F146	% maximum	10
Thickness Increase after immersion in:			
ASTM Oil IRM 901, 5h/300°F (149°C)	ASTM F146	%	0 - 5
ASTM Oil IRM 903, 5h/300°F (149°C)			0 - 3
ASTM Fuel A, 5h/73°F (23°C)			0 - 5
ASTM Fuel B, 5h/73°F (23°C)			0 - 5
Dielectric Strength	ASTM D149-95a	kV/mm	1.5
Density	ASTM F1315	lb/ft ³ (g/cc ³)	87 (1.4)
Leachable Chloride Content	FSA Method	ppp	200
Line Call Out	ASTM F104	--	F712122B3E11K6M5