

Grafoseal C 9112

Description :

C 9112 is an expanded graphite with a purity degree of minimum 96%. The material is strengthened with a special 0.2 mm carbon steel inlay. This tanged metal inlay binds the graphite mechanically to the steel. For this reason, the material does not contain a binding agent. C 9112 has very fine creep characteristics even under extreme chemical and thermal stress.

Specifications	Values
Basic density before lamination	1.1 g/cm ³
Temperature	-240 to +450° C
Compressibility ASTM F36/A	20 - 40 %
Recovery ASTM F36/A	20 - 50 %
ASTM fuel B - after 5 hours at 23° C:	
Weight increase	10 - 20 %
Thickness increase	2 - 5 %
ASTM oil no. 3 - after 5 hours at 150° C:	
Weight increase	10 - 20 %
Thickness increase	3 - 6 %

End use applications:

The material is suitable for applications in areas with high chemical and thermal stress. This could be flange gaskets in chemical and steam plants, production plants with thermal variations, heat exchangers and gas coolers as well as cylinder-head gaskets and exhaust gaskets in diesel and petrol engines. See the specific media table.

Material thicknesses: 1.0 - 1.2 - 1.5 - 2.0 mm

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The function and durability of gaskets are highly dependent on the application and the medium. Since the conditions of use are beyond our control, Elwis Royal can only be held responsible for the characteristics of the material and for the geometrical design of the gasket.