



6MS.003

Carbo-graphite

Application

- Bagues d'étanchéité
- Joints
- Paliers

Physical variables included in this documentation are provided by way of indication only and do not, under any circumstances, constitute a contractual undertaking. Please contact our technical service if you require any additional information.

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Overview

Carbo-graphite is a material with a fine to very fine granulometry composed by amorphous carbon and graphite. This material can have a strong anisotropy because of axial shaping process.

Carbo-graphite products are made to achieve advantageous tribological characteristics and resist to corrosion. Those properties can be strengthened with resins, phosphates or metals impregnation.

Machining

We certify a machining quality ISO 9001:

- Rectification (plane, cylindrical, turning)
- Milling
- Drilling
- Machining and drilling by ultrasounds
- Polishing (plane, cylindrical)
- Tapping, threading, running-in

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Technical data

Properties	Unit	EK24	EK2240	EK305
Impregnation		No impregnation	Phenolic resin	Antimony
Density	g/cm ³	1,70	1,8	2,55
Bending resistance	MPa	60	70	80
Compressive strength	MPa	180	200	290
Young Modulus	GPa	18	19	21
Hardness	Rockwell B	105	110	115
Thermal conductivity	Wm ⁻¹ .K ⁻¹	14	15	33
Linear dilatation (from 20 to 200 °C)	10 ⁻⁶ .K ⁻¹	4,1	5,0	6,0
Temperature stability	°C	350	200	500

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