Frenos Sauleda s.a.
science friction

Barri del migdia S/N - E 08396
Sant Cebrià de Vallalta (Barcelona - Spain)
sauleda@frenossauleda.com
Tel. (+34) 93 763 11 20 Fax (+34) 93 763 10 61

ID Material	N 3
Responsable	R. Antich
Revision	6
Revision date	31/07/2021

CR-2M

CR-2M is a rigid, semi-metal, molded friction material. It is composed basically of resins and rubber as a link system with frictional modifier agents, mineral fibres and fine copper shavings to enhance its strength. They help to establish the friction value by conducting heat from the operating surface. It is black with copper shavings. It has a medium and very stable friction coefficiency with low wear and excelent resitance to fading. CR-2M is fully cured material and is suitable for bonding and riveting.

Material data

Friction properties

Static Friction Coefficient (@15bar, from the box)	0.35±0.05 μ
Static Friction Coefficient (@15bar, 100ºC)	0.40±0.05 μ
Dynamic Friction Coefficient (10bar, 10m/s)	0.45±0.05
Wear Rate (@10bar, 15m/s)	20 (at 150 ºC)
Tº Fading (@10bar, 10m/s)	>350 °C

Physical properties

Hardness (DIN53505)	80±5 Shore-D
Specific Gravity (ASTM D792)	2.10±0.05 gr/cm3
Thermal Conductivity (ASTM E1952)	0.54±0.01 W/m°K

Mechanical properties

Tensile Strength (ASTM D638)	15±5 N/mm²
Compressive Strength (ISO 844:2014)	126±5 N/mm²
Shear Modulus (ASTM D2344-00)	2170±100 N/mm²
Poison coefficient (ASTM D638)	0.24±0.03
Young Modulus (ASTM D638)	5381±100 N/mm²

Recommended Working Values

Tº Max. Continuous Operation	350 °C
Tº Max. Intermittent Operation	400 °C

Material type

Rigid

Appearance / Formats



Applications

Forging machinery · Gear discs · Heavy-duty industrial machinery · Machinery Mining industries · Mining industries · Punch-die press blocks

Price Level

€ € €

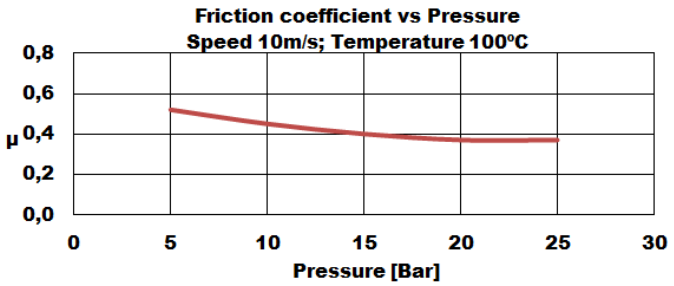
Reach (EC)1907/2023 - RoHS 2015/863/EU

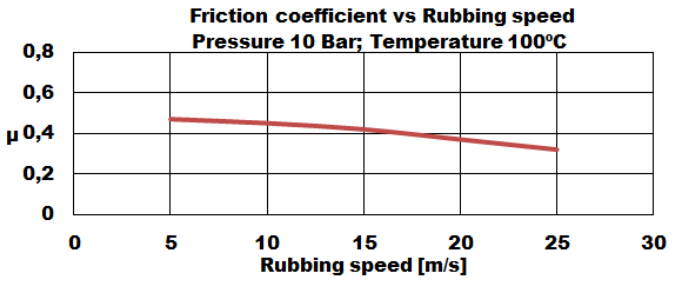
Compliance

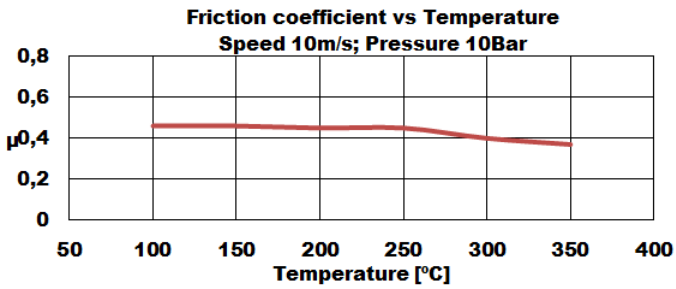
Others

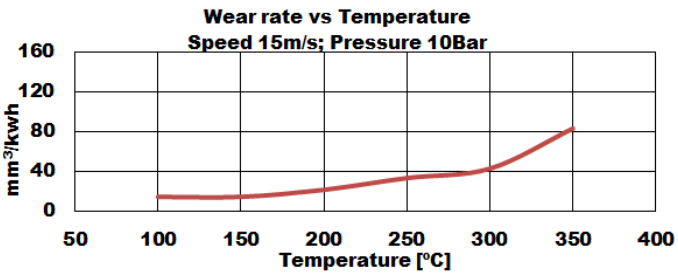
Recommended Mating Surface	Perlitic cast iron, hardness HB150-200
Recommended Adhesives	Thermosetting adhesive
Oil Resistant	Yes

Charts









Rubbing speed, temperature and pressure are related. Changing any values will change other. The values shown represent typical conditions, but are not ultimate limits of the material.