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Feroform F36 – maintenance free bearing material

1. Structure

Resistant to high temperatures phenolic resin with aramid fibres.

2. Characteristics

- maintenance free bearing material with high load resistance and dark-olive colour,
- asbestos free,
- specially designed for work in high temperatures (up to 200°C),
- low wear and good bearing properties even in high temperatures,
- lubrication grooves improve bearing performance I n lubricated applications,
- resistant to abrasion and chemical corrosion,
- has minimum thermal expansion, absorbs vibrations and is resistant to impact loads,
- manufactured in casting and press moulding technology optimum for many different shapes,
- also available in wide range of semi-products,
- available additives:
  1 – oil impregnation, improves run-off, reduces coefficient of friction,
  7 – thermal stabilisation, for better performance in high temperatures,
  8 – additional MoS_2 in order to provide better run-off in high erosion environment
  for example. F36.71 – F36 material thermally stabilized and impregnated with oil,

3. Applications

- water turbines, conveyors and worm gears, breweries, chemical, food and beverage industry, paper and txtile industry, earthmoving machines, shipyards, pumps, water turbines seals, filtration systems, water desalination and conditioning systems, etc.

4. Availability

- standard range of semi-products:
  sheets – dimensions: 1220 x 1220 mm thickness: 1,6-101 mm
  rods – dimensions: ∅19-111 x 1220 mm
  tubes – dimensions: ∅20-200 x ∅ 40-250 x 1150 mm
  tubes – dimensions: ∅200-600 x ∅ 260-700 x 1050 mm
  to order: tubes with big dimensions (inner diameter up to 1800 mm),
  to order: assembly ready elements even with complex shape.

5. Technical data

Parameter			Unit	Value
Maximum load			MPa	85
Maximum sliding speed	dry		m/s	2,3
Working temperature	maximum	constant	°C	+200
		temporary		+210
Coefficient of friction	dry		-	0,14 – 0,18
Surface Ra finish	shaft		µm	0,2 – 0,8
	housing			1,8 – 3,2
Fitting	shaft		-	h7
	housing			H7
Shaft hardness			HB	200

6. Working conditions

dry	good
oil lubricated	good
grease lubricated	good
water lubricated	fair
process fluid lubricated	good

7. Assembly tips

The housing should have a fit-in phase machined.
The bushes should be assembled with constant pressure without bush torsion.