

Material Datasheet

Molybdenum

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Material description

Molybdenum parts produced by eForging for use various electrical or thermal applications and as welding electrode materials.

Available in thicknesses down to 0.5mm.

Mechanical and physical characteristics at RT

	Mo
Mass density [g cm ⁻³]	10 -10.2
Hardness HV1	140-180
Electrical conductivity [†] [%IACS] [MS·m ⁻¹]	28-32% [†] 16-18
Thermal conductivity [W·m ⁻¹ ·K ⁻¹]	135-140
Th. exp. coeff. α [ppm·K ⁻¹]	5-6 (TBC)

[†]measured by phase-sensitive eddy current test method (DIN EN 2004-1)

Forms available

- Thickness from 0.5mm to 15mm
- Disks up to 28 mm diameter
- Square or rectangular plates with area up to 650 mm²
- Semi-finished machined products and specific sizes available on request

Health and Safety

No substances classified under the Annex XVII to REACH are used in this group of materials. Cobalt, Chromium, Nickel, and Beryllium free.