



Molybdenum-ML (MoLa)

Sample actual characteristics of MoLa-PM rolled sheet and forged rods

Molybdenum alloyed with lanthanum oxide has advantages over pure molybdenum:

- Lower cold shearing threshold, so easier machining at room temperature
- Higher tensile strength
- Greater resistance to deformation at high temperature

Element	Mass percentage
Mo	
La	0,40 ± 0,07%
Impurities, ppm, maximum	
Fe	100
Al	30
Ni	50
Si	50
Mg	20
Na	30
K	80
Ca	40
W	130
Total metallic impurities	500
C	100

Material	Test temperature °C	Tensile strength kgf/ mm2	Relative elongation δ,%
Sheet Mo-La-PM 2.0–3.0	20	88–98	10–12
Rod Mo-La-PM Ø 9.5	20	74–75	30–35
Rod Mo-La-PM Ø 20	1400	8.2–9.0	31–39
	1800	6.3	9.2