

Molybdenum Disilicide Mosi2 Thermal Heating Elements For Electric Furnace

Item Number: KT-MH



Introduction

High-performance MoSi₂ heating elements for labs, reaching 1800°C with superior oxidation resistance. Customizable, durable, and reliable for high-temperature applications.

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Physical Properties (g/cm³)	Bending Strength (MPa)	Hardness (GPa)	Compression Strength (MPa)	Water Absorption (%)	Heated Elongation (%)
6.0±0.1	500	12	≥1500	≤0.2%	4

Atmosphere	T1700 Grade	T1800 Grade	T1850 Grade	T1900 Grade
Air	1700	1800	1830	1850
N2 Nitrogen	1600	1700	1700	1700
Ar, He (Argon, Helium)	1600	1700	1700	1700
Dry Hydrogen (dew point -80°C)	1150	1150	1150	1150
Wet Hydrogen (dew point -20°C)	1450	1450	1450	1450
Exogas (e.g., 10% CO ₂ , 50% CO, 15%H ₂)	1600	1700	1700	1700
Exogas (e.g., 40% CO ₂ , 20% CO)	1400	1450	1450	1450
Cracked and partially burnt ammonia	1400	1450	1450	1450

D1	D2	Le Range	Lu Range	A (Typical)
3mm	6mm	80-300mm	80-500mm	25mm
4mm	9mm	80-350mm	80-500mm	25mm
6mm	12mm	80-800mm	80-1000mm	25-60mm
7mm	12mm	80-800mm	80-1000mm	25-60mm
9mm	18mm	100-1200mm	100-2500mm	40-80mm
12mm	24mm	100-1500mm	100-1500mm	40-100mm