

Plansee MLS Molybdenum-Lanthanum Oxide; Stress Relieved

Category : Metal , Nonferrous Metal , Molybdenum Alloy , Refractory Metal

Material Notes:

Characteristics:"Stacked fiber" microstructureExtremely creep resistantApplications:Furnace components - wires, including stranded; sintering and annealing boats; evaporator coilsLighting - retaining and feed wiresInformation provided by Plansee.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plansee-MLS-Molybdenum-Lanthanum-Oxide-Stress-Relieved.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|-----------|------------|
| Specific Gravity | 10.2 g/cc | 10.2 g/cc | Calculated |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|-----------|-----------------------------------|--|
| Thermal Conductivity | 142 W/m-K | 985 BTU-in/hr-ft ² -°F | comparable with pure Mo |
| Maximum Service Temperature, Air | 2000 °C | 3630 °F | Microstructure stable up to this point |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|--------|---------|-----------------|
| Molybdenum, Mo | 99.3 % | 99.3 % | Balance |
| Other, each | 0.70 % | 0.70 % | Lanthanum Oxide |

| Descriptive Properties | Value | Comments |
|-------------------------------|---------------------------|---------------------------|
| Creep Resistance | < 1400°C | much greater than pure Mo |
| Ductility | much greater than pure Mo | after HT use |
| Recrystallization Temperature | much greater than pure Mo | |
| Stability at High Temperature | > 1400°C | greater than pure Mo |
| Stability at Room Temperature | comparable with pure Mo | |
| Weldability | greater than pure Mo | |

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