

## SPECIFICATION

### Molybdenum

| Parameters       | Specification                                                                                               |
|------------------|-------------------------------------------------------------------------------------------------------------|
| CAS Number       | 7439-98-7                                                                                                   |
| Appearance       | Silvery-gray metallic solid                                                                                 |
| Molecular Weight | 95.95 g/mol                                                                                                 |
| Boiling Point    | 4612 °C                                                                                                     |
| Flash Point      | 4000 °C                                                                                                     |
| Purity           | 99.5–99.99%                                                                                                 |
| Refractive Index | 2.9                                                                                                         |
| Solubility       | Insoluble in water; soluble in hot concentrated oxidizing acids to form molybdate                           |
| Uses             | Alloying agent in steel and high-strength alloys; catalysts for hydrodesulfurization; pigments; electronics |

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