Tungsten & Molybdenum Additive

Product introduction :
Appearance: pure greyish metallic luster with no severe oxidation or containment on surface

Application:
Tungsten is used as additive for making special steel, mainly include: high speed steel for making turning insert with higher hardness and good wear resistance at high temperature; alloy tool steel for making all kinds of tools, such as drill bits, milling cutter, dies and pneumatic support tool; hard magnetic material having a property of high saturation magnetization and coercive force.

Molybdenum is widely used as additive for making many kinds of alloy steel, stainless steel, heat-resistant steel, tool steel, cast iron, roller, super alloy and non-ferrous metal. The alloy steel with added molybdenum has high strength, toughness, elasticity and outstanding heat resistance, corrosion resistance and permanent magnetism. For stainless steel, the added molybdenum could strengthen its corrosion-resistance in the corrosion circumstance. Therefore, molybdenum alloy steel, are also used in the production of conveys, locomotive, and industry equipment, and other high-precision chemistry apparatus and the related installation in marine environments.

Molybdenum together with tungsten, nickel, titanium, cobalt, and zirconium can be used for making advanced alloy, which can increase its high temperature strength, wear and corrosion resistance. Molybdenum-nickel-chromium alloy can be used to produce aircraft metal parts and corrosion-resistance parts in locomotive and automotive; molybdenum, tungsten, chromium and vanadium alloy is used to manufacture components and parts for ships, tanks, guns, rockets, satellites.

Property:

Description	Grade	Dimension (mm)	Main Content (%)	Applications
Tungsten rod additive	W-4	\	≥99.50	Use as additive for alloy steel, high speed steel, hard magnetic material
Tungsten cutting end.	WQT	L≥30mm	≥99.00	
Molybdenum rod additive	MFT-4	-	≥99.50	Use as additive for alloy steel, stainless steel, heat resistant steel, tool steel, cast iron, roller, super alloy and non-ferrous metal.
Molybdenum plate additive	MBP-4	L≥30mm	≥99.50	
Molybdenum cutting end	MQT	-	≥99.00	

Other chemical composition:

Element	Impurity content (%), max		
	W-4	MFT-4	MBP-4
Fe	0.030	0.050	0.050
Si	0.0050	0.0050	0.0050
Al	0.0050	0.0050	0.0050
Ca	0.0050	0.0040	0.0040
Ni	0.050	0.050	0.050
Mg	0.0050	0.0040	0.0040
C	0.010	0.050	0.050
O	0.0070	0.0070	0.0070

Note:

1.Chemical content: different impurities apply to different application. The specific content could be adjusted as needed.

2.Dimensions and shape: will be made as the requirements.

3.Packing and storage:

Stored in iron drum or wooden case with inner plastic woven bag in a dry, ventilated place without acid and alkaline atmosphere, and strictly prevent from damping, oxidation and corrosion caused by active chemical material. Storage period should not be over than six months.