



AMMONIUM PARATUNGSTATE

APT

Technical Data Sheet



Ammonium Paratungstate $[(NH_4)_{10}W_{12}O_{41} \cdot 5H_2O]$ is a material that is crystallized after the refining of tungsten raw materials such as tungsten concentrates or scrap. It is typically further converted into a tungsten oxide for reduction into pure tungsten powder through a process of hydrogen reduction.

PHYSICAL PROPERTIES				COMPOSITION (WT%)	
Type	Average Fisher Particle Size FSSS (μm)	Apparent Density (g/in ³)	Standard Screening (mesh size)	Carbon (max)	WO ₃ (min)
APT	30.0–70.0	30-55	-100	≤0.0010	≤88.5

METALLIC IMPURITIES (WT%)										
Element	Al	As	Bi	Ca	Co	Cr	Fe	K	Mn	Mg
Max	<0.0010	<0.0010	<0.0010	<0.0005	<0.0005	<0.0010	<0.0010	<0.0005	<0.0007	0.007
Element	Mo	Ni	P	Pb	S	Sb	Si	Sn	Ti	V
Max	0.0020	0.0007	0.0007	0.0002	0.0007	0.0005	0.0010	0.0003	0.0010	0.0010

MESH ANALYSIS		
Mesh Size	Min	Max
+60	0	0
+100	0	5
+140	0	30
+200	10	30
+325	20	40
-325	30	50