



ORBITALA

who dares wins

PRODUCT: Magnesium

Chemical formula: Mg

MIL SPEC: MIL-DTL-382D

Particle sizes: according to MIL specs

CAS number: 7439-95-4

UN number: UN1869

Class: 4.1

CHARACTERISTIC:

Characteristic	Type II		Type III		325 mesh	
	Requirements		Requirements		Requirements	
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
Volatile at 105°C, %	--	0.10	--	0.10	--	0.10
Oil and grease, %	--	0.02	--	0.02	--	0.01
Carbides, %	--	0.004	--	0.004	--	0.004
Material insoluble in sulfuric acid, %	--	0.15	--	0.15	--	0.096
Metalic iron, %	--	0.05	--	0.05	--	0.028
Total iron as Fe ₂ O ₃ , %	--	0.25	--	0.25	--	0.066
Free metallic magnesium, %	96	--	98	--	--	95.02
Apperent density, grams/milliliter	0.62	--	0.90	--	--	--
<u>Particle size, %</u>	--	--	--	--	--	--
Pass through sieve no. US 100	--	--	90	--	--	--
Pass through sieve no. US 100 and retained on sieve no. US 200	--	--	--	70	--	--
	--	--	--		--	--
	--	--	--		--	--
Pass through sieve no. US 325	--	--	--	30	--	--
Pass through sieve no. US 200(75 μm)	--	--	96%	--	--	--
Pass through 4 μm	--	--	--	0%	--	--
Oversized material of 325 mesh:	--	--	--	--	4.80%	
Undesized material of 325 mesh:	--	--	--	--	95.20%	
Apperent density, grams/cm ³	--	--	--	--	0.52	

USES:

Magnesium powder is intended for use in the manufacture of tracer, igniter, signal flare and pyrotechnic compositions