

Titanium Hydride powder, Grade AR2



PRODUCT

Titanium Hydride powder, Grade AR2

SPTH Type Product No. 20012

CAS-No. 7704-98-5

EINECS-No. 231-726-8

APPEARANCE

Grey to Black

FORMULA

TiH₂

APPLICATION

Titanium hydride (TiH₂) Common applications include ceramics, pyrotechnics, sports equipment, as a laboratory reagent, as a blowing agent, and as a precursor to porous titanium. When heated as a mixture with other metals in powder metallurgy, titanium hydride releases hydrogen which serves to remove carbon and oxygen, producing a strong alloy.

They are also utilized in initiator squibs and igniters.

SPECIFICATION

Ti _{total}	min. 94%
Ignition gain	min. 56.7%
Auto Ignition temperature	> 230°C
Surface area(BET)	3.0 +/- 0.2 m ² /g
H	min. 3.7%
Fe	max. 0.08%
Ni	max. 0.04%
Si	max. 0.05%
Mg	max. 0.02%
Particle size (by Seiving)	min. 99.9 % < 45µm
Average particle size (Blaine)	1.8 +/- 0.2µm
Average particle size (Malvern)	3.7 +/- 0.6µm