

Titanium Hydride powder, Grade AR1



PRODUCT	Titanium Hydride powder, Grade AR1
	SPTH Type Product No. 20011
	CAS-No. 7704-98-5 EINECS-No. 231-726-8
APPEARANCE	Grey to Black
FORMULA	TiH ₂

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. 95%
Ignition gain	min. 58.8%
Auto Ignition temperature	min 400°C
Surface area(BET)	0.6 +/- 0.2 m ² /g
Fe	max. 0.08%
H	min. 3.8%
Ni	max. 0.04%
Si	max. 0.05%
Mg	max. 0.02%
Particle size	min. 99.9 % < 63µm
Average particle size (Blaine)	5.0 +/- 1.0µm
Average particle size (Malvern)	13.0 +/- 3.0µm