## 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 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**

T:	
Ti <sub>total</sub>	min. 95%
Ignition gain	min. 58.8%
Auto Ignition temperature	min 400°C
Surface area(BET)	0.6 +/- 0.2 m <sup>2</sup> /g
Fe	max. 0.08%
Н	min. 3.8%
Mn	max. 0.006%
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

R.(0.16)