

# Titanium Hydride powder, Grade TH1



<b>PRODUCT</b>	Titanium Hydride powder, Grade TH1 SPTH Type                      Product No. 20006 CAS No. 7704-98-5                      EINECS-No. 231-726-8
<b>APPEARANCE</b>	Greyish-black powder
<b>FORMULA</b>	TiH <sub>2</sub>
<b>APPLICATION</b>	Titanium hydride (TiH <sub>2</sub> ) 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.

## SPECIFICATION

Ti <sub>total</sub>	min. 95%
Auto Ignition temperature	min 400°C
H	min. 3.8%
C	max. 0.03
Cl	max. 0.03
Fe	max. 0.07
Mg	max. 0.02
Ni	max. 0.04
Si	max. 0.02
Particle size (by sieving)	min. 99.9 % < 300µm
Average particle size (Malvern)	60 ± 5 µm