

# Titanium Hydride powder, Grade TH4



## PRODUCT

Titanium Hydride powder, Grade TH4

SPTH Type                      Product No. 20009

CAS No. 7704-98-5                      EINECS-No. 231-726-8

## APPEARANCE

Greyish-black powder

## FORMULA

TiH<sub>2</sub>

## APPLICATION

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%
Ignition Gain	min. 58.4%
Auto Ignition temperature	min 400°C
H	min. 3.8%
Al	max. 0.03
C	max. 0.03
Cl	max. 0.03
Fe	max. 0.07
Mg	max. 0.02
Ni	max. 0.04
Si	max. 0.02
N	max. 0.06
Particle size (by sieving)	min. 99.9 % < 45µm
Average particle size (Blaine)	7 ± 3 µm
Average particle size (Malvern)	14 ± 3 µm