

# Zirconium Hydride powder, Grade ZH M3



<b>PRODUCT</b>	Zirconium Hydride powder, Grade ZH M3 SPZH Type                      Product No. 11027 CAS-No. 7704-99-6                      EINECS-No. 231-727-3
<b>APPEARANCE</b>	Greyish-Black
<b>FORMULA</b>	ZrH <sub>2</sub>
<b>APPLICATION</b>	Zirconium hydride in the industry for the fireworks, flux and ignition agent, used as a moderator in nuclear reactors, as a getter in vacuum tubes, and is also used in metal - ceramic sealing in.

## SPECIFICATION

Zr + Hf	min. 97.2 +/- 0.8%
Hf	min. 0.02 - 2.50% (natural content)
Density (Bulk)	1,000 - 2,000 Kg/m <sup>3</sup>
Ignition gain	31.2 +/- 1.0%
Auto Ignition temperature	250 +/- 50 °C
Burning rate	600 +/- 150 s/50cm
H	min 1.9%
Fe	max. 0.1%
Mg	max. 0.2%
Si	max. 0.1%
Cr	max. 0.02%
Particle size (by Seiving)	min. 99.9 % < 45µm
Average particle size (Blaine)	2.6 +/- 0.6µm
Average particle size (Malvern)	5.2 +/- 0.6µm