

# Zirconium Hydride powder, Grade ZH-G



**PRODUCT** Zirconium Hydride powder, Grade ZH-G  
 SPZH Type Product No. 11024  
 CAS-No. 7704-99-6 EINECS-No. 231-727-3

**APPEARANCE** Greyish-Black

**FORMULA**  $ZrH_2$

**APPLICATION** 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. 93%
Hf	min. 0.02 - 2.50% (natural content)
Ignition gain	30.2 +/- 1.0%
Density (Bulk)	approx 0.95 g/cm <sup>3</sup>
Auto Ignition temperature	252 +/- 30 °C
Burning rate	360 +/- 50 s/50cm
H	min 1.5%
Fe	max. 0.1%
Al	max. 0.03%
Ca	max. 0.01%
Ni	max. 0.03%
Ca	max. 0.01%
Particle size (by Seiving)	min. 99.9 % < 38µm
Average particle size (Blaine)	2.4 +/- 0.4µm
Average particle size (Malvern)	4.6 +/- 0.6µm
Average particle size Distribution	D50 max. 7.5µm
	D90 max. 18µm
	D100 max. 38µm