

# Zirconium Hydride powder, Grade ZH M1



**PRODUCT** Zirconium Hydride powder, Grade ZH M1  
 SPZH Type Product No. 11025  
 CAS-No. 7704-99-6 EINECS-No. 231-727-3

**APPEARANCE** Greyish-Black

**FORMULA** ZrH<sub>2</sub>

**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. 95.1 - 96.6%                   |
| Hf                              | min. 0.02 - 2.50% (natural content) |
| Density (Bulk)                  | 1,000 - 2,000 Kg/m <sup>3</sup>     |
| Ignition gain                   | 29.5 +/- 1.0%                       |
| Burning rate                    | 350 +/- 60 s/50cm                   |
| H                               | min 1.4%                            |
| Fe                              | max. 0.1%                           |
| Al                              | max. 0.2%                           |
| Mg                              | max. 0.3%                           |
| Si                              | max. 0.6%                           |
| Ca                              | max. 0.1%                           |
| Particle size (by Seiving)      | min. 99.9 % < 45µm                  |
| Average particle size (Blaine)  | 2.3 +/- 0.5µm                       |
| Average particle size (Malvern) | 4.6 +/- 0.5µm                       |