

# Zirconium Metal powder, Grade A2



**PRODUCT** Zirconium Metal powder, Grade A2, aqueous suspension  
 SPZF Type Product No. 11007  
 CAS No. 7440-67-7 EINECS-No. 231-176-9

**APPEARANCE** Greyish-black powder  
**FORMULA** Zr

**APPLICATION** High energy igniters, Fuses and thermal batteries in pyrotechnics, production of highly reactive fuses, delay composition, and igniter composition in pyrotechnics for use in ammunition, explosive, airbags and belt pretentioners, getter materials zirconium component in powder metallurgy, as a source material of getter film for manufacturing transmitter.

## SPECIFICATION

Zr <sub>total</sub> + Hf <sub>total</sub>	97.5 +/- 0.9%
Zr <sub>active</sub> + Hf <sub>active</sub>	90.2 +/- 3.6 %
Hf	approx. 2%
Ignition gain	31.7 +/- 1.2%
Burning rate	9.2 +/- 4.8 s/50cm
Auto Ignition temperature	180 +/- 30 °C
Fe	max. 0.1%
Al	max. 0.1%
Ca	max. 0.05%
H	max. 0.2%
Particle size (by sieving)	min. 99.9 % < 45µm
Average particle size (Blaine)	1.7 +/- 0.5µm
Average particle size (Malvern)	3.4 +/- 0.6µm