

# Zirconium Metal powder, Grade A3



<b>PRODUCT</b>	Zirconium Metal powder, Grade A3, Dry SPZF Type                      Product No. 11009 CAS No. 7440-67-7                      EINECS-No. 231-176-9
<b>APPEARANCE</b>	Greyish-black powder
<b>FORMULA</b>	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>	min. 95%
Hf	approx. 2%
Ignition gain	min. 28.4 %
Surface area (BET)	1.3 +/- 0.5 m <sup>2</sup> /g
Burning rate	12.5 +/- 7.5 s/50cm
Auto Ignition temperature	235 +/- 65 °C
Fe	max. 0.1%
Al	max. 0.1%
Ca	max. 0.1%
H	max. 0.2%
Particle size (by sieving)	min. 99.9 % < 45µm
Average particle size (Blaine)	1.9 ± 0.4µm
Average particle size (Malvern)	3.6 ± 0.3µm