

Zirconium Metal powder, Grade A3



PRODUCT Zirconium Metal powder, Grade A3, Dry
 SPZF Type Product No. 11009
 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 _{total} + Hf _{total}	min. 95%
Hf	approx. 2%
Ignition gain	min. 28.4 %
Surface area (BET)	1.3 +/- 0.5 m ² /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 ± 0.4 µm
Average particle size (Malvern)	3.6 ± 0.3 µm