

Zirconium Metal powder, Grade A4



PRODUCT Zirconium Metal powder, Grade A4, Dry
 SPZF Type Product No. 11012
 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}	97.4 +/- 0.8%
Hf	approx. 2%
Ignition gain	31.5 +/- 1.0%
Burning rate	13.0 +/- 5.0 s/50cm
Auto Ignition temperature	180 +/- 20 °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)	2.0 ± 0.3 µm
Average particle size (Malvern)	3.8 ± 0.3 µm