

Zirconium Metal powder, Grade A4



PRODUCT	Zirconium Metal powder, Grade A4, in water / n-propyl Alcohol SPZF Type Product No. 11011
APPEARANCE	CAS No. 7440-67-7 EINECS-No. 231-176-9
FORMULA	Greyish-black powder
APPLICATION	Zr
	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