

Zirconium Metal powder, Grade M1



PRODUCT Zirconium Metal powder, Grade M1, aqueous suspension
 SPZF Type Product No. 11016
 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

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|---|---------------------|
| 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. 0.07% |
| Al | max. 0.1% |
| Ca | max. 0.05% |
| H | max. 0.2% |
| Particle size (by sieving) | min. 99.9 % < 45µm |
| Average particle size (Blaine) | 3.5 ± 0.7µm |
| Average particle size (Malvern) | 7.0 ± 1.0µm |