



Requirements of MIL Z-399-D / type II

Class	1	2	3	4
Zr (+Hf)	min. 94 %	min. 95 %	min. 95 %	min. 94 %
Ca	max. 0.10 %	max. 0.05 %	max. 0.05 %	max. 0.10 %
Fe	max. 0.20 %	max. 0.03 %	max. 0.05 %	max. 0.20 %
Al	max. 0.30 %	max. 0.15 %	max. 0.10 %	max. 0.30 %
H	max. 0.20 %	max. 0.20 %	not provided	max. 0.17 %
Gain on Ignition	30.2 - 33.0 %	30.2 - 33.0 %	30.2 - 33.0 %	30.0 - 33.0 %
Average Particle Size	2.5 ± 1.0 µm	2.0 ± 0.3 µm	3.0 ± 1.0 µm	not provided
Specific Surface acc. to BET	not provided	not provided	not provided	1.1 - 1.6 m ² /g
Combustion Rate acc. to MIL	1.3 - 2.4 sec/10"	1.3 - 2.4 sec/10"	not provided	not provided
Recommended CHEMETALL Zr grade	MX	CA	ZM	ZM

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