

Physical & Performance Characteristics

STANDARD	SECTION	FEAUTES - CHARACTERISTICS	REQUIREMENTS	EVIDENCE (Test Results)	TESTING COMPANY ^[*]
13356	4.1	density [according to ISO 18754 or EN 623-2]	≥ 6,00 [g/cm ³]	6,070	DMC-Laboratory
13356	4.3	microstructure: intercept distance [Test acc. to EN 623-3 or ASTM E112]	≤ 0,4 [µm]	0,33	FGK
13356	4.4	4 point bending strength	≥ 800 [MPa]	1155	DMC-Laboratory
13356	4.6	cyclic fatigue limit stress	≥ 320 [MPa]	successful, no failure	Endolab
13356	4.7	radioactivity	≤ 200 [Bq/kg]	13,7	VKTA
6872	7.4	linear thermal expansion	determination [10 ⁻⁶ K ⁻¹]	10	FGK
6872	7.6	chemical solubility	2.000 [µg · cm ²]	4,3	FGK

Chemical Characteristics

STANDARD	SECTION	CHARACTERISTIC	ELEMENTS - OXIDES	REQUIREMENTS	EVIDENCE (Test Results)	TESTING COMPANY ^[*]
13356	4.2	composition [mass percentage]	ZrO ₂ + HfO ₂ + Y ₂ O ₃	≥ 99,0	99,76	FGK
13356			Y ₂ O	> 4,5 up to ≤ 6,0	5,69	FGK
13356			HfO ₂	≤ 5	1,77	FGK
13356			Al ₂ O ₃	≤ 0,5	0,003	FGK
13356			other oxides	≤ 0,5	0,237	FGK

[*] Accreditation certificate available on request

Registered notified body: TÜV SÜD Product Service GmbH **CE 0123**