

Material selection guide

Durable materials, right design

Property	Test Method	SAF 0.3	AF	WAF	MeAF	SF
Color		White	Light Gray	White	White/Gray	Dark Gray
Chemistry (%)	ICP & EDS					
Al ₂ O ₃		99.56	87	91	87	13
Na ₂ O		0.38	---	---	---	---
Fe ₂ O ₃		0.02	---	---	---	---
SiC		---	---	---	---	84
SiO ₂		0.02	8	7	8	---
MgO		0.01	---	---	---	---
CaO		0.01	---	---	---	---
Other		---	5	2	5	3
Density (g/cc)	ASTM C-373	2.55	2.10	2.10	2.10	1.80
MOR (MPa) RT	ASTM C-583	20	26	25	26	26
Porosity (%)	ASTM C-373	31	43	43	43	39
Mean Pore Diameter (µm)		0.2	---	---	---	---
Max Pore Size (µm)		0.3	---	---	---	---
Maximum Material Use Limit (°C)		1300	800	800	800	1200
Thermal Shock Resistance	N/A	Excellent	Good	Good	Good	Excellent

DIFFUSERS

FILTERS

WICKS



NOTES: Typical values are not intended to be used as a specification. Contact Refractron for application suitability.