

SPINEL

MAGNESIUM ALUMINATE

Chemical Composition (%)	Spinel SP67 (Typical)	Spinel SP78 (Typical)	Spinel SP90 (Typical)
Al ₂ O ₃	67.0	78.0	90.0
MgO	32.0	21.4	9.4
Na ₂ O	0.17	0.12	0.12
SiO ₂	0.13	0.10	0.10
Fe ₂ O ₃ (TOTAL)	0.25	0.15	0.15
CaO	0.45	0.20	0.20

Physical Characteristics ¹		Minimum value	Maximum value
Bulk specific gravity	(g/cm ³)	3.2	
Apparent porosity	(%)	1.2	2.6
Water absorption	(%)		1.0

¹ For all three types of spinels.

Standard grain size ²			
(mm)	(mesh)	(mm)	(mesh)
3-6	3-6	0-0.5/0.6	-28
1-3	6-14	0-0.090	-170
0-1	-14	0-0.045	-325
0.5/0.6-1	14-28	0-0.020	-635

² Other grain sizes are also possible.

