

SPINEL

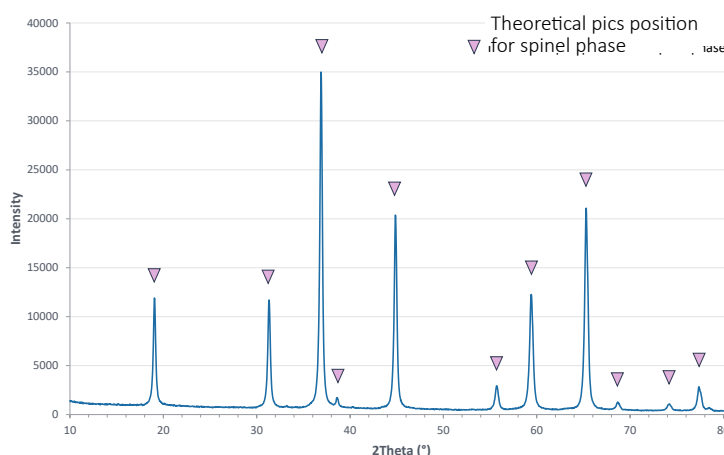
Characteristics

Standard Spinel product (Typical values)		S15CR	S25CR	S30CR
Chemical Composition		MgAl ₂ O ₄		
Crystalline phase (%)		≥ 99% Spinel		
Corundum		≤ 0.5%		
Periclase		≤ 0.5%		
Specific Surface Area (m ² /g) BET		14 - 17	21 - 24	25 - 28
Particle Size Distribution (µm)		d ₅₀ 0.4 - 0.6	0.15 - 0.30	
Elemental Analysis (ppm) ICP	S	≤ 50	≤ 60	≤ 500
	Fe	≤ 10	≤ 10	≤ 15
	Na	≤ 50	≤ 50	≤ 70
	Si	≤ 50	≤ 30	≤ 30
	Ca	≤ 45	≤ 45	≤ 60
	K	≤ 50	≤ 50	≤ 60
Processability		Spray dry form available		

- > Spinel product range **characteristics**:
 - Controlled in particle size and size distribution
 - High chemical purity
 - Accurately controlled in crystallographic phase

*The best choice between our three spinel standard products **strongly depends on your ceramic process.** S15CR is suited for feedstocks and tape casting.*

> XRD spectrum - S30CR



Applications

> The main characteristics of our Spinel products bring **advanced transparency** with a low scattering loss, without any coloration or defect (black or white spots), and **high mechanical properties**.



Possibility to customize the Spinel SSA and chemical composition: Al/Mg stoichiometry and Co, Mn and Fe doping.

Applications in catalysis and luxury.



Your solution partner for fine minerals



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