

FEATURES AND BENEFITS

PORTAFLAME® SG 30 LV is produced from carefully selected, synthetic aluminium hydroxide (ATH). The standardised quality of PORTAFLAME® SG 30 LV is guaranteed by means of an ISO 9001 certified quality management plan. The chemical composition of raw material and product is closely monitored and particle size kept within a narrow variation.

PORTAFLAME® SG 30 LV is a "Low Viscosity" optimized grade with exceptional low Oil Absorption value giving the formulator the opportunity to achieve higher loading levels.

PORTAFLAME® SG 30 LV ground halogen-free flame retardant (HFFR) filler is used in a broad range of applications, e.g. SMC & BMC, carpet backing, potting resins, sealants, adhesives and polymer concrete. Their flame-retarding action is based mainly upon the endothermic decomposition of metal hydroxide (heat-sink effect) and simultaneous release of water vapour. This reaction starts at about 200°C. In addition to flame retardancy, PORTAFLAME® SG 30 LV possesses a strong smoke-suppressing ability.

It is not classified as a dangerous substance (DSD and CLP) and do not contain Substances of Very High Concern (SVHC), including their decomposition products from fire.

PARTICLE SIZE ANALYSIS AND PROPERTIES

Mean values. These do not represent a specification

		SG 30 LV	Method
+ 45 µm	%	0.0	Alpine air jet
D ₁₀	µm	1.5	Laser diffraction
D ₅₀	µm	8.5	Laser diffraction
D ₉₀	µm	24	Laser diffraction
D ₉₇	µm	32	Laser diffraction
SSA	m ² /g	4	BET
Oil absorption	g/100 g	16	ISO 787/5
Colour L*		98.5	Spectrophotometer, CIELAB, (D65;10°)
a*		0.3	
b*		1.0	
Moisture	%	0.2	105 °C
pH		9	ISO 787/9
Density	g/cm ³	2.4	He pycnometer
Bulk density	g/cm ³	0.7	Böhme
Hardness	Mohs' scale	3	Mohs' scale
Refractive Index		1.57	Immersion liquid
Thermal stability	°C	≈ 200	DSC

CHEMICAL ANALYSIS

Mean values. These do not represent a specification

	Weight %	Method
Al ₂ O ₃	65	XRF
Na ₂ O	0.2	XRF
Fe ₂ O ₃	0.01	XRF
L.o.i.	34.5	1000°C, 1 hour



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