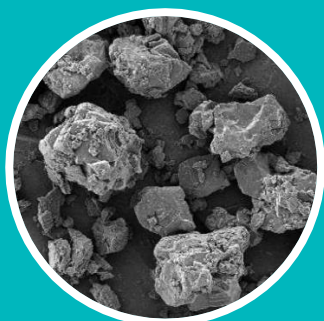


Aluminum Hydroxide / Al(OH)<sub>3</sub>

Technical data sheet

APYRAL® 413

Mineral flame retardant



20 µm

APYRAL® 413

Product advantages

- broad particle size distribution
- Low viscosity
- Good packaging density
- Good Dispersability

Temporary Typical Values of APYRAL® 413

Analysis	Unit	APYRAL® 413
Al(OH) <sub>3</sub>	%	99.6
Water soluble Na <sub>2</sub> O	%	0.04
Moisture (105 °C)	%	0.05
D <sub>10</sub>	µm	5
D <sub>50</sub>	µm	23
D <sub>90</sub>	µm	57
Sieve residue (> 45 µm)	%	17
Spec. surface area (BET)	m <sup>2</sup> /g	1.3
Oil absorption*	ml/100g	19
Spec. conductivity	µS/cm	133
Bulk density	kg/m <sup>3</sup>	900
Whiteness**	%	83

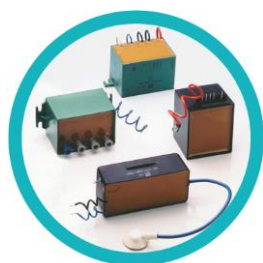
\*Oleic acid; \*\*Tappi Brightness (457 nm)

### Applications

- Adhesives Industry
- Paints, Carpet Beddings
- E&E industry

### Application Examples

Electrical components

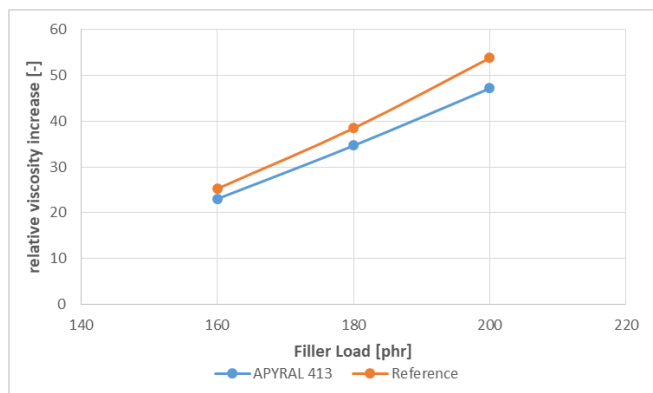


Paints



### Product Information

Viscosity in UP-Resin Palapreg P17-02 (AOC-Aliancys)



Material constants Aluminum Hydroxide	APYRAL®
Chemical	Aluminum hydroxide
Chemical formula	Al(OH) <sub>3</sub>
Crystal structure	Gibbsite
Mohs hardness	3
Specific gravity [g/cm <sup>3</sup> ]	2.42
Refractive index	1.58

All data listed in this data sheet are reference values and subject to production tolerances. These values are exclusive to the product description and no guarantee is placed on the properties. It remains the responsibility of the users to test the suitability of the product for their application.