SPAETER Duisburg
Raw Materials

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Technical Datasheet
ATH Aluminium Hydroxide ALUPREM® TGR-2

Ultra-white, low soda, fine Aluminium Hydroxide

Chemical Analysis (Typical Data)

$Al(OH)_3$	%	~ 99,1
Na_2O soluble	%	≤ 0,08
SiO_2	%	≤ 0,01
Fe_2O_3	%	≤ 0,01
Moisture (105°C)	%	≤ 0,3
Loss on Ignition (1200 °C)	%	~ 34,5

Physical Analysis (Typical Data)

Particle Size	d_{10}	µm	~ 0,9
	d_{50}	µm	~ 2,5
	d_{90}	µm	~ 6
	d_{99}	µm	~ 12
Specific Surface Area		m^2/g	10
Oil Absorption		$cm^3/100g$	35
Electrical Conductivity		µS/cm	230
Whiteness (R 457 nm)		%	≥ 96
Specific Density		g/cm^3	2,4
Bulk Density		kg/m^3	~ 500

Stand: 05.04.2017

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Technical Datasheet
ATH Aluminium Hydroxide
ALUPREM® TGR-7, TGR-10, TGR-12 and TGR-20

Ultra-white, low soda, fine Aluminium Hydroxide

Chemical Analysis (Typical Data)			**TGR-20**	**TGR 12**	**TGR-10**	**TGR-7**
$Al(OH)_3$		%	~ 99,6	~ 99,6	~ 99,6	~ 99,6
Na_2O soluble		%			≤ 0,03	≤ 0,05
SiO_2		%	≤ 0,02	≤ 0,02	≤ 0,02	≤ 0,02
Fe_2O_3		%	≤ 0,01	≤ 0,01	≤ 0,01	≤ 0,01
Moisture (105°C)		%	≤ 0,3	≤ 0,3	≤ 0,3	≤ 0,3
Loss on Ignition (1200 °C)		%	~ 34,5	~ 34,5	~ 34,5	~ 34,5
Physical Analysis (Typical Data)						
Particle Size	d_{10}	µm	~ 2,5	~ 4	~ 2,0	~ 1,5
	d_{50}	µm	~ 20	~ 12	~ 10	~ 7
	d_{90}	µm	~ 100	~ 30	~ 35	~ 25
	d_{99}	µm	~ 140	~ 85	~ 85	~ 45
Specific Surface Area		m^2/g	1,5	1,7	2,0	3,0
Oil Absorption		$cm^3/100g$	~18	~20	~20	~22
Electrical Conductivity		µS/cm	~ 80	~ 80	~ 80	~ 90
Whiteness (R 457 nm)		%	≥ 95	≥ 95	≥ 95	≥ 96
Specific Density		g/cm^3	2,4	2,4	2,4	2,4
Bulk Density		kg/m^3	~ 900	~ 800	~ 750	~ 700

Stand: 19.01.2017