

PLUSTALC D30E

Functional Extender

GENERAL INFORMATION

PLUSTALC D30E is a hydrated magnesium silicate with chemical formula of $Mg_3Si_4O_{10}(OH)_2$.

Plustalc grades are displaying the highest levels of whiteness, are macrocrystalline and exhibit low loss on ignition. Their low iron content makes them ideal for plastics, especially in household appliances such as washing machines.

Special double classified "D" grades are available for high solid coating products with low volatile organic compound (VOC) content.

APPLICATIONS

- Paints & Coatings: white, low VOC top coats with dry film thickness 40 - 60 μm

KEY PROPERTIES

- Pure, lamellar and white talc with medium fine particle size, sharp top-cut and reduced oil absorption value, very hydrophobic, inert and soft.

INCORPORATION

PLUSTALC D30E can be used as a functional extender to achieve following results:

Good barrier properties, good anti-corrosion properties, low viscosity impact, high whiteness, good outdoor durability, good sandability and adhesion.

LEVELS OF USE

Typical use levels for paints and coatings applications are 15 - 30 % depending upon the application and the desired properties.

HEALTH AND SAFETY

Before using this product please consult our Safety Data Sheet (SDS) for information on safe handling and storage. The SDS can be found on the company website.

STORAGE RECOMMENDATIONS

Store dry.

SHELF LIFE

PLUSTALC D30E has a shelf life of 5 (five) years from the date of manufacture.

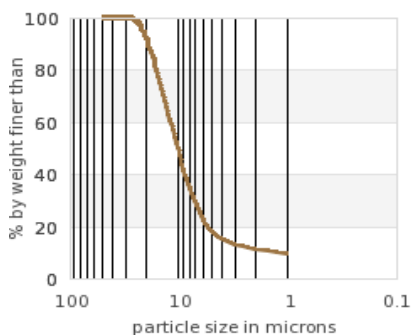
QUALITY ASSURANCE

Since 1992 the company is a holder of the ISO 9001 certificates, which guarantees that all operations are conducted according to the stipulated standards.

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PLUSTALC D30E

MINERALOGY	Talc (Mg-Silicate)	93	%
	Residue magnesite, dolomite and chlorite		
	CAS-No. 14807-96-6	EINECS-No. 238-877-9	
CHEMICAL PROPERTIES	MgO	31.5	%
	SiO ₂	60.0	%
	Al ₂ O ₃	0.6	%
	FeO total	0.3	%
	Fe acid soluble (1mol/L HCl, 100°C)	Not detect	%
	Loss on ignition (DIN 51081/1000°C)	7.5	%
	Water solubles (ISO 787/3)	0.2	%
	pH value (ISO 787/9)	9	
	Brightness Ry (DIN 53163)	91	%
	CIE L*, a*, b* (DIN 6174)	96.5/0.0/1.2	
	Particle size distribution	Sedigraph 51XX	
	- Top cut (d98%)	24	µm
	- Median particle size (d50%)	10	µm
	- Particles < 2 µm	10	%
	Hegman fineness (ISO 1524)	4	
	Sieve residue (ISO 787/7, 45 µm)	0.1	%
	Specific surface area (BET, ISO 4652)	4.7	m ² /g
	Oil absorption (ISO 787/5)	32	g/100g
	Hardness (Mohs)	1	
	Specific gravity (ISO 787/5)	2.77	g/cm ³
	Packed bulk density (ISO 787/11)	0.90	g/cm ³
	Bulk density (DIN 53468)	0.57	g/cm ³
	Moisture (ISO 787/2)	0.2	%



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North America
Elementis
469 Old Trenton Road
East Windsor
NJ 08512, USA
Tel.: +1 609 443 2500
Fax: +1 609 443 2422

Europe
Elementis UK Ltd.
c/o Elementis GmbH
Stolberger Strasse 370
50933 Cologne, Germany
Tel.: +49 221 2923 2066
Fax: +49 221 2923 2011

Elementis Minerals B.V.
Kajuitweg 8
NL-1041 AR Amsterdam
The Netherlands
Tel.: +31 20 4487 448

Asia
Deuchem (Shanghai) Chemical Co., Ltd.
99, Lianyang Road
Songjiang Industrial Zone
Shanghai, China 201613
Tel.: +86 21 5774 0348
Fax: +86 21 5774 3563