Product Information ACEMATT® OK 412

Characteristic physico-chemical data*)

Properties and Test Methods	Units	ACEMATT OK 412
Loss on drying 2 h at 105°C following ISO 787-2	%	6
Loss on ignition [1] 2 h at 1000°C following ISO 3262-1	%	13
pH value 5% in water following ISO 787-9	—	6
Sulfate content as SO_4 IR spectrometrically Degussa method	%	1
Particle size Mean (TEM) d50 value (Laser diffraction)	µm	3 6.0
Surface treatment		organic
Tamped density not sieved following ISO 787-11	g/l	130
Density following ISO 787-10	g/cm³	1.9
Oil absorption following ISO 787-5	g/100 g	220
SiO_2 content [2] following ISO 3262-19	%	98
Package size (net)	kg	15

[1] based on dried substance
[2] based on ignited substance

*) The given data are typical values. Specifications on request.

ACEMATT® Matting agents are high performance silicas developed for a variety of applications in Paints & Coatings.

ACEMATT OK 412 is an organically surface treated, easily dispersible matting agent for general applications.

Application and characteristics

This matting agent allows exceptional surface characteristics with excellent slip-effect, also in pigmented coatings. As a result of its outstanding suspension behavior, it is especially suitable for use in clear coats.

Registration

CAS-RN	112926-00-8 (ex 7631-86-9)/ 9002-88-4
EINECS (Europe)	231-545-4 exempt
ENCS (Japan)	1-548/6-1
ECL (South Korea)	KE-32733 (KE-31032)/ KE 28877
TSCA (USA), AICS (Australia), PICCS (Philippines), DSL (Canada)	registered
ECS (China)	registered

ACEMATT® OK 412

Range of Products

ACEMATT® HK 125
An economical, untreated all-purpose matting agent; heterogeneous particle distribution; particle size [1]: 4µm; for pigmented coatings, in particular coil coating systems, wood and industrial paints.

ACEMATT® HK 400
An all-purpose untreated matting agent in the particle size [1] range of 3µm.

ACEMATT® HK 450
Untreated matting agent produced by a newly developed production process. This high efficiency matting agent is designed for low gloss / sheen coatings e.g. coil-coatings. Particle size [1]: 3µm.

ACEMATT® HK 460
Untreated matting agent. High matting efficiency combined with excellent smooth coating surface; universal to different coating applications; particle size [1]: 2.5µm.

ACEMATT® OK 412
Easily dispersible all-purpose matting agents; wax treated; particle size [1]: 3µm. Outstanding suspension characteristics.

ACEMATT® OK 500 is recommended for coatings in which ACEMATT® OK 412 may cause drying retardation.

ACEMATT® OK 412 LC
Easily dispersible matting agent with low conductivity; wax treated; particle size [1]: 3µm. In view of its very low conductivity ACEMATT® OK 412 LC is ideal for use as a functional filler and matting agent in electronic deposit coatings.

ACEMATT® OK 520
Easily dispersible, all-purpose matting agent; particle size [1]: 3µm. ACEMATT® OK 520 is especially recommended for clear coats e.g. PU-systems because of the high matting efficiency and transparency.

ACEMATT® OK 607
Easily dispersible matting agent with extremely fine particles [1] in the range of 2µm; wax treated. A very high degree of surface smoothness, good transparency and outstanding sheen which result from the fineness of the particles. This product is ideal for thin layer coatings and water based paint systems.

ACEMATT® TS 100
A thermal silica without surface treatment obtained by the Aerosil® process; particle size [1]: 4µm. ACEMATT® TS 100 has superior matting efficiency and transparency and is suitable for all coatings especially for water-based paints and for finishes/top coats. It has a low conductivity and improves the flow and shelf life of powder coatings.

ACEMATT® OP 278
Organic matting agent. Suitable for matting plastic semi-products such as films, cables, boards and non-pressurized pipes.

[1] Average agglomerate particle size, determined by means of transmission-electron microscopy images (TEM)

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