LAVIOSA
Advanced Mineral Solutions

Technical Data Sheet

additives@laviosa.com

Performance Additives
House&Personal Care

DETERSOFT® A

Bentonite super-softening agglomerates high white fast dispersability

Characteristics and advantages

The bentonite has a considerable, well-known softening performance on fabrics. Besides it possesses, as well as a safe environmental impact, a perfect compatibility with all the compounds of detergent formulations, something which occurs without other softening agent on the market. While traditional softeners must be added in the rinsing phase, bentonite can carry out its softening effect directly during the wash, combining detergents and softening components in one product and obtaining the claimed "2 in 1" detergent ("*softergent*").
Detersoft*® *A are among the bentonite product range the ones which are showing the highest softening performances: this thanks to a new raw material and a special production process that modifies the characteristics of the bentonite.

New raw material: low grit content, high specific surface

Based on new bentonite raw material, Detersoft A can be considered as pure montmorillonite (active part of bentonite): the grit content is about 0.2-0.5%, against the 2-4% of the traditional material. Therefore there are not residual on fibre tissue, and less percentage of bentonite is required to have the same performance.

Furthermore the specific surface is improved of about 50%, improving the exchange mechanism and filling a higher number of fibre cavities, with better final softening performance.
Detersoft*® *A considerably enhances the softening bentonite performance to its best.

High whiteness and fast dispersibility

Detersoft*® *A is not substantially distinguishable from the final product, so it is particularly suitable to be added in those formulations with a high percentage of softening additives (in particular those ones of concentrated detergents)
The granules have a good mechanical stability and disperse quickly in the presence of water.

Easy ironing effect

Detersoft*® *A is a multifunctional product showing also easy ironing performance effect: lab test shows that it helps the fibre not to wrinkle, to stay soft and stretchy for easy ironing. This type of products has been introduced in the market as "3 in 1".

Usage

Detersoft*® *A is therefore a granular white product usable for creating "softergents". The inclusion in the detergent powder must be done in post-addition, weather the detergent is manufactured by both spray-dry system and NTD system. The advised percentage in the detergent ranges between 8 and 15%wt.

Customizing

Detersoft*® *A can be eventually produced with various bentonite bases and in various physical forms and aesthetical aspects, according to customer needs. The particle size of the granules can be adapted to avoid separation in the finishing product.

Laviosa Chimica Mineraria SpA - Italy
Laviosa Sanayi ve Ticaret Ltd Sti - Turkey
Laviosa MPC sas - France
Laviosa Trimex Industries Pvt Ltd - India

LAVIOSA
Advanced Mineral Solutions

TECHNICAL CHARACTERISTICS

CHEMICAL-PHYSICAL CHARACTERISTICS (Typical values)		
		Detersoft® A
Moisture	[%]	Max 13
Colour (Hunterlab)	L	75
	a	-1 - +1
	b	+8
Bulk density	[g/cm^3]	0.9 – 1.0
pH		9 – 10
Particle size range: > 1.2 mm < 0.2 mm	[%]	5 (max) 3 (max)
Dispersion time	[sec]	< 60

CHEMICAL-ANALISYS (Typical values)	
	Detersoft® A
	[%]
SiO_2	69.3
Al_2O_3	14.3
TiO_2	0.7
Fe_2O_3	1.4
P_2O_5	0.01
MnO	0.01
MgO	4.10
CaO	0.80
K_2O	0.80
Na_2O	2.60
L.O.I. (900℃)	5.98

Laviosa Chimica Mineraria SpA - Italy
Laviosa Sanayi ve Ticaret Ltd Sti - Turkey
Laviosa MPC sas - France
Laviosa Trimex Industries Pvt Ltd - India