TECHNICAL DATA SHEET

Ghassoul Clay

INFORMATION ON SUBSTANCE / MIXTURE

INCI	Moroccan Lava Clay
Origin	Smectic clay, pure natural mineral
Description	Ghassoul or rhassoul, generic name that comes from the Arabic word ghassala or rhassala, which means washing, is a smectic clay composed mainly of lithiniferous stevensite which is a mineral of the magnesium montmorillonite group of brown, black or beige color.
Properties	It is a clay that has natural properties such as absorbent, swelling, saponiferous, detersive and degreasing.
Manufacturing process	Ghassoul, of lacustrine sedimentary origin, is found in tertiary formations. The synonyms of ghassoul are hectorite and stevensite. After exploitation, the ghassoul follows a natural treatment: drying of raw ghassoul, washing with water to eliminate impurities, filtering dissolved ghassoul, display on large flat surfaces and dried in the sun, which gives the product the form of platelets.

TECHNICAL DATA

Composition

SiO_2	50 to 60%
MgO	20 to 30%
Al_2O_3	1 to 4%
CaO	1 to 4%
Fe_2O_3	0.5 to 1%
FeO	0 to 1%
TiO_2	0 to 0.5%
Na_2O	0.1 to 0.8%
K_2O	0.2 to 0.9%
MnO	<0.01%
P_3O_5	0.01 to 0.08%

Physical and chemical parameters

Appearance	Solid, powder

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Color	Gray to brown
Odor	Characteristic
Gross density	about 1.7
Cation exchange capacity	75.1 meq / 100g
Adsorption power	1 g of ghassoul adsorbs 80 mg of methylene blue
Absorption capacity of water	15 g of ghassoul absorbs 25 g of water (1.66 times its weight)
Differential thermal analysis	Important endothermic phenomenon between 120°C and 160°C which corresponds to the departure of the interfollicular water of montmorillonites

LEGISLATION

Certification	-
CMR substances	This product is free from substances classified as carcinogenic, mutagenic or toxic for reproduction (CMR) of category 1A, 1B or 2 under Part 3 of Annex VI to Regulation (EC) No 1272/2008.
Nanomaterials	This product is not considered as a nanomaterial, and doesn't contain nanoparticles as defined by the European commission and as described in EU n°1223/2009 and 2012-232 (ANSES).
Animal testing	This product has not been tested on animals.
EINECS	2508-20-10
CAS	12417-86-6

TRANSPORT, STORAGE and SHELF LIFE

Storage conditions	Store around in a dry and temperate place, protected from light, properly ventilated, free of unpleasant odors, and protected against insects and pests.
Shelf Life	5 years under good storage conditions.
Customs code	-

DISCLAIMER

All warranty claims in respect to the conformity of our product are subject to our General Terms and Conditions of Sale and Delivery. The data listed above reflects the results of the manufacturer or our supplier quality tests. We do not hereby make any express or implied warranty, whether for specific properties or for fitness for any particular application or purpose. All values are valid for the product when dispatched from the works. We recommend you perform your own quality and or identification checks on receipt.