

**TECHNICAL DATA SHEET****Bleaching Earth****ELTERRA® 412****PRODUCT DETAIL**

ELTERRA® 412 is a tailor made, natural bleaching and clarifying adsorbent. It has unique adsorption and filtration characteristics.

ELTERRA® 412 is a fine, bright beige powder showing a highly porous inner structure.

ELTERRA® 412 has very efficient metal adsorption (P, Ca, Fe, Mg, Ni etc.) capacity.

ELTERRA® 412 effectively removes soap, phospholipids and chlorophyll.

ELTERRA® 412 shows excellent refining results in Sunflower, Soybean, Palm and Corn oil.

PHYSICAL / CHEMICAL CHARACTERISTICS (TYPICAL PRODUCT DATA)

Bulk density	g/l	400 – 600
Free moisture (2 h, 110 °C)	%	Max 20
Loss on ignition (predried, 2 h, 1.000 °C)	%	7.9
pH (10% suspension, filtered)	-	6.0 – 8.0
Surface area (B.E.T.)	m ² /g	180 – 250



PARTICLE SIZE DISTRIBUTION (PSD) ANALYSES

The particle size distribution of ELTERRA® 412 is characterized by a sieve analysis of the dry powder. The following average values have been determined for the various sieve fractions:

> 150 µm	%	2 - 10
> 100 µm	%	10 - 20
> 63 µm	%	20 - 40
> 45 µm	%	30 - 55
> 25 µm	%	25 - 45

CHEMICAL ANALYSIS

ELTERRA® 412 (dried at 110°C for 2 hours) has the following chemical composition (average values):

SiO ₂	%	73.1
MgO	%	1.9
K ₂ O	%	0.9
Al ₂ O ₃	%	9.4
Fe ₂ O ₃	%	2.7
CaO	%	2.1
Na ₂ O	%	0.4
Loss on ignition	%	7.9
Total	%	98.4

All data outlined above represent typical values for this product. They are not designed to convey absolute product specifications. The information in this data sheet is believed to be accurate. However, each purchaser should make its own test to determine the suitability of the product for its purposes. MONTERA Madencilik ve Danismanlik AS makes no warranty, express or implied, with respect to the product and assumes no responsibility for any risk or liability arising from the use of this product information.

Detailed information concerning application and handling can be taken from our material safety data sheet of ELTERRA® 412.

Approved in accordance with DIN EN ISO 9001: 2015 Quality Management System.

