

599920 Tripoli, Rotten Stone, reddish

Synonyms: Diatomite, diatomaceous earth, kieselgur

Tripoli forms by the accumulation of the amorphous silica remains of dead diatoms (microscopic single celled algae) in lacustrine or marine sediments. Tripoli consists of about 70-90 % SiO_2 , 3-12 % water and small amounts of organic constituents. These organic constituents are normally removed by calcination. During this process the powder can turn reddish (iron (III) compound).

The normal, calcinated diatomaceous earth is chemically very resistant and non-combustible. Tripoli burns at 1200-1700°C.

Tripoli is used in powdered form as polishing agent for metals, stones and likewise or for the manufacture of metal polishing agents.

Technical Data

Physical and Chemical Data:

Color:	yellowish-brown / pink
Bulk density:	190 g/l
Density:	400 g/l
Humidity (max % H_2O):	0.5 %
pH-Value (10 % aqueous suspension):	6.5
Specific weight:	2.25
Permeability (millidarcy):	85
Refractive index:	1.43

Sieve analysis (Tyler)	
% +150 Mesh (> 105 microns):	0.9
% +325 Mesh (> 44 microns)	4.0
Average particle size (microns):	12.7

Chemische Analyse:

SiO_2	92.6 %
Al_2O_3	3.8 %
Fe_2O_3	1.6 %
CaO	0.6 %
MgO	0.3 %
Other oxides:	0.5 %
Ignition loss:	0.3 %

These are average values.