CARBOCORE
MINERALS & POLYMERS

TECHNICAL DATA SHEET

TDS-CC-TALC-20 · Rev. 01 · 20 Oct 2026

MINERALS & POLYMERS

INDUSTRIAL MINERALS / TALC

CC-Talc 20

Natural talc powder

Hydrated magnesium silicate

$Mg_3Si_4O_{10}(OH)_2$ · CAS 14807-96-6 · HS code 2526.20 · Origin: Egypt

Chemically inert, lamellar (platy) mineral.

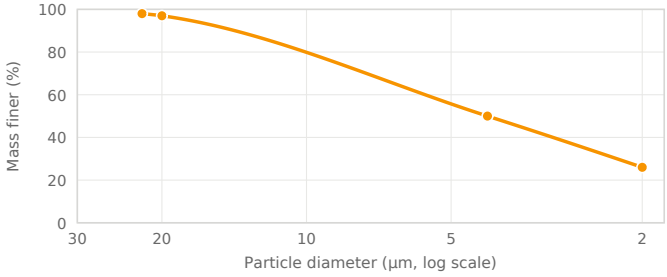
SiO₂ CONTENT	MgO CONTENT	BRIGHTNESS R(Y)	MOISTURE
56 – 59 %	32 – 34 %	90 ± 1	≤ 0.2 %

01 PARTICLE SIZE DISTRIBUTION

PARAMETER	SEDIGRAPH III	MALVERN
D98 (µm)	**22 ± 1**	36 ± 1
D97 (µm)	**20 ± 1**	33 ± 1
D50 (µm)	**4.2 ± 0.2**	8.5 ± 0.5
Particles < 2 µm (Sedigraph)	**24 – 28 %**	

Values are reported by the stated method; results from different methods are not interchangeable.

Cumulative mass finer vs. diameter · Sedigraph III



02 CHEMICAL & MINERALOGICAL ANALYSIS

Typical composition · mass % unless stated

SiO_2	**56 – 59**
MgO	**32 – 34**
Al_2O_3	**0.3 – 0.5**
Fe_2O_3	**0.1 – 0.2**
CaO	**0.3 – 0.8**
TiO_2	**< 0.01**
$Na_2O + K_2O$	**< 0.02**
L.O.I. (1000 °C)	**6.5 – 9**
Talc content (XRD)	**≥ 88**
Crystalline silica / quartz (XRD)	**≤ 1**
Asbestos (XRD + PLM)	**Not detected**

03 PHYSICAL PROPERTIES

Loose bulk density (g/cm³)	**0.35**
Tapped density (g/cm³)	**0.88**
Oil absorption (ISO 787/5) (g/100 g)	**43 ± 1**
Specific surface area, BET (m²/g)	**5**
Density (ISO 787/10) (g/cm³)	**2.7**
Hardness (Mohs)	**1**
pH value (ISO 787/9)	**9**
Moisture (ISO 787/2)	**≤ 0.2 %**
Refractive index	**1.57 – 1.59**

04 OPTICAL PROPERTIES

Color (ELREPHO)

Brightness R(Y)	**90 ± 1**
CIE L*	**95.5 ± 1**
CIE a*	**-0.05**
CIE b*	**0.65**
Yellowness Index (DIN 6167)	**1.4 – 1.7**

PACKING 25 kg PP/paper bags or 850 kg jumbo bags (FIBC) · Store dry in sealed bags

Values are typical and given for guidance only; they do not constitute a specification.

Refer to the SDS for safe handling. This sheet is not a batch certificate of analysis.

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