

TECHNICAL DATA SHEET

DOC TDS-WS12T · REV. 06-2026 · ORIGIN EGYPT

WS12T

SURFACE-COATED · GCC

Surface-Coated Ground Calcium Carbonate

DESCRIPTION Surface-treated (stearic-acid coated), very fine ground calcium carbonate produced from high-purity, very white limestone using high-technology classifying mills. Not for pharmaceutical or medicinal use.

APPLICATIONS

Rigid PVC pipe & profiles

Masterbatch

Cable compounds

Flexible PVC

Filled polyolefins

MEDIAN d_{50}

2.7 μm

TOP CUT d_{97}

12 μm

FINES $\leq 2 \mu\text{m}$

38 %

BRIGHTNESS R(Y)

96.5 % min

CHEMICAL ANALYSIS

CaCO ₃	≥ 99.60 %
MgO	≤ 0.1 %
Fe ₂ O ₃	≤ 0.01 %
Al ₂ O ₃	≤ 0.05 %
SiO ₂	≤ 0.02 %
CaO	≥ 55.67 %
L.O.I.	44.23 %

RAW MATERIAL

True specific gravity	2.73 g/cm ³
Hardness (Mohs)	3
HCl insoluble	≤ 0.3 %
Refractive index	1.59

PHYSICAL

pH (ISO 787-9)	9 max
Oil absorption	19 g/100g
Bulk density	0.59 g/cm ³
Moisture	≤ 0.2 %
Stearic-acid coating	9 – 9.5 kg/t

OPTICAL · BRIGHTNESS

R(Y) · C/2°	≥ 96.5 %
L* · D65/10°	≥ 98
a* · D65/10°	≤ 0.2
b* · D65/10°	≤ 1.2

Datascolor Elrepho spectrophotometer

PARTICLE SIZE DISTRIBUTION

d_{97}	12 $\mu\text{m} \pm 0.2$
d_{50}	2.7 $\mu\text{m} \pm 0.2$
Passing $\leq 2 \mu\text{m}$	38 % ± 2
Sieve residue $\geq 45 \mu\text{m}$	0.01 %

