

TECHNICAL DATA SHEET

DOC TDS-WS18T · REV. 06-2026 · ORIGIN EGYPT

WS18T

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}

4.6 μm

TOP CUT d_{97}

18 μm

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

27 %

BRIGHTNESS $R(Y)$

96 % 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	17.7 g/100g
Bulk density	0.71 g/cm ³
Moisture	≤ 0.2 %
Stearic-acid coating	8 kg/t

OPTICAL · BRIGHTNESS

$R(Y) \cdot C/2^\circ$	≥ 96 %
$L^* \cdot D65/10^\circ$	≥ 97.5
$a^* \cdot D65/10^\circ$	≤ 0.2
$b^* \cdot D65/10^\circ$	≤ 1.2

Datascolor Elrepho spectrophotometer

PARTICLE SIZE DISTRIBUTION

d_{97}	18 $\mu\text{m} \pm 0.2$
d_{50}	4.6 $\mu\text{m} \pm 0.2$
Passing $\leq 2 \mu\text{m}$	27 % ± 2
Sieve residue $\geq 45 \mu\text{m}$	0.05 %

