

TECHNICAL DATA SHEET

DOC TDS-WS12 · REV. 06-2026 · ORIGIN EGYPT

WS12

UNCOATED · GCC

Uncoated Natural Ground Calcium Carbonate

DESCRIPTION Natural, very fine ground calcium carbonate produced from high-purity, very white limestone using high-technology classifying mills. Not for pharmaceutical or medicinal use.

APPLICATIONS

Powder coatings (glossy finish)

Water- & solvent-based paints

Protective paints

Printing inks

Adhesives & sealants

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_2O_3	≤ 0.01 %
Al_2O_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 %

OPTICAL · BRIGHTNESS

$R(Y) \cdot C/2^\circ$	≥ 96.5 %
$L^* \cdot D65/10^\circ$	≥ 98
$a^* \cdot D65/10^\circ$	≤ 0.2
$b^* \cdot D65/10^\circ$	≤ 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 %

