

TECHNICAL DATA SHEET

DOC TDS-WS6 · REV. 06-2026 · ORIGIN EGYPT

WS6

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

Paper

Powder coatings (glossy finish)

Water - & solvent-based paints

Protective paints

Printing inks

Adhesives & sealants

MEDIAN d_{50}

1.7 μm

TOP CUT d_{97}

6 μm

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

60 %

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/cm³
Hardness (Mohs)	3
HCl insoluble	≤ 0.3 %
Refractive index	1.59

PHYSICAL

pH (ISO 787-9)	9 max
Oil absorption	22 g/100g
Bulk density	0.50 g/cm³
Moisture	≤ 0.2 %

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}	6 $\mu\text{m} \pm 0.2$
d_{50}	1.7 $\mu\text{m} \pm 0.2$
Passing $\leq 2 \mu\text{m}$	60 % ± 2
Sieve residue $\geq 45 \mu\text{m}$	0.01 %

