

TECHNICAL DATA SHEET

DOC TDS-WS40 · REV. 06-2026 · ORIGIN EGYPT

WS40

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}

10 μm

TOP CUT d_{97}

40 μm

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

14 %

BRIGHTNESS $R(Y)$

96 % 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	14.5 g/100g
Bulk density	0.85 g/cm^3
Moisture	≤ 0.2 %

OPTICAL · BRIGHTNESS

$R(Y) \cdot C/2^\circ$	≥ 96 %
$L^* \cdot D_{65/10^\circ}$	≥ 97.5
$a^* \cdot D_{65/10^\circ}$	≤ 0.2
$b^* \cdot D_{65/10^\circ}$	≤ 1.2

Datascolor Elrepho spectrophotometer

PARTICLE SIZE DISTRIBUTION

d_{97}	40 $\mu\text{m} \pm 0.2$
d_{50}	10 $\mu\text{m} \pm 0.2$
Passing $\leq 2 \mu\text{m}$	14 % ± 2
Sieve residue $\geq 45 \mu\text{m}$	0.1 %

