

Specification of Titanium Dioxide (Anatase & Rutile)

<u>Particulars</u>	<u>KCL-ANATASE</u>	<u>KCL - RUTILE</u>
TiO ₂	97-98%	93-94%
Tinting Strength	1220 min.	1750 ± 20
Specific Gravity	3.8 - 3.9	4 - 4.2
Refractive Index	2.5	2.7
Rutile Content	N.A.	99% min.
pH	6.5 - 8	7 - 8.2
Bulk Density (tamped)	0.7 ± 0.2 gm/cm ³	1 ± 0.2 gm/cm ³
Water Soluble Matter	0.5% max.	0.5% max.
Loss on ignition	0.6% max.	0.5% max.
Mositure	0.4% max.	< 0.3%
Oil Absorption	20 - 25 gm / 100 gm	18 - 20 gm / 100 gm
Residue on 45 μ sieve	< 0.2 %	Nil
Average Particle Size	< 40 μ	< 0.3 μ
Treatment / Coating	Nil	Inorganic Coated, Organic Treated & Micronised
Chalk Resistance	Good	Excellent
Dispersibility	Freely Dispersable in both Aqueous & Non-aqueous media	Freely Dispersable in both Aqueous & Non-aqueous media