

TYPICAL CERTIFICATE OF ANALYSIS

TITANIUM DIOXIDE (Food Grade, E 171)

SR. NO	Item	SPECIFICATION	RESULT
1.	Description	White, Taste less, Odourless, Infusible Powder.	Conforms
2.	Solubility	Insoluble in water and in organic solvents. It dissolves slowly in Hydrofluoric Acid and in hot concentrated Sulphuric Acid.	Conforms
3.	Identification	Peroxide Reaction ; Spectrography; Melting Range.	Conforms
4.	Loss On Drying	0.5% Max (105° C , 3Hrs)	0.18%
5.	Loss On Ignition	0.5% Max (800° C)	0.25%
6.	Water Soluble Substance	0.30% Max	0.20%
7.	Acid Soluble Substance	0.50% Max	0.31%
8.	AL ₂ O ₃ and/ or SiO ₂	2.0% Max	< 0.02%
9.	Lead (Pb)	10 PPM Max	6.90ppm
10.	Arsenic	3 PPM Max	0.75ppm
11.	Antimony	50 PPM Max	< 0.02ppm
12.	Mercury	1 PPM Max	< 0.01ppm
13.	Zinc	50 PPM Max	5.50ppm
14.	Soluble Barium Compounds	Not listed	—
15.	Assay (TIO ₂)	99.0% Min.	99.22 %
Conclusion : Complies With FCC VII / E-171 Specification.			