

CERTIFICATE OF ANALYSIS

Standard product specification — applicable to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd., manufacturer and supplier of quality chemicals.

Product Name	Iron Oxide Black
C.A.S. Number	1317-61-9
Molecular Formula	—
Molecular Weight	—
Grade / Standard	≥90% Purity
Physical Form	Black powder
Product Category	Pigments & Minerals
Country of Origin	India

ANALYTICAL RESULTS

S. No.	Test Parameter	Specification	Result	Method
1	Description	Black powder	Complies	Visual
2	Identification	Conforms to the structure of the substance	Complies	FTIR / Chemical test
3	Solubility	As per specification	Complies	Visual / Monograph
4	Assay	Not less than 90.0 % w/w	90.48	Titrimetry / Instrumental
5	Shade	Matching approved standard	Matches standard	Visual / Spectrophotometric
6	Strength vs. Standard	100 ± 3 %	99.3 %	Spectrophotometry
7	Moisture	Not more than 5.0 % w/w	2.40	Gravimetry
8	Matter Insoluble in Water	Not more than 1.0 % w/w	0.208	Gravimetry
9	Oil Absorption	As per specification	32 g/100 g	ISO 787-5
10	Residue on 45 µm Sieve	Not more than 0.1 %	0.037	ISO 787-18
11	pH (10 % aqueous suspension)	6.0 – 9.0	7.3	ISO 787-9
12	Structure	Conforms to reference structure	Complies	FTIR / NMR

Remarks

Material supplied against this specification is analysed on every production lot and **conforms** to the limits stated above in all tested parameters. Results shown are the typical values obtained for this grade.

Retained samples are held against every export consignment. Store in tightly closed original packing, in a cool, dry, well-ventilated place away from incompatible materials and direct sunlight.

Checked and Approved by

Prem Panchal
Quality Assurance
Scapex Exports Pvt. Ltd.

This document sets out the standard specification for the product named above and applies to all consignments of this grade. It is issued by Scapex Exports Pvt. Ltd. as manufacturer and supplier. Refer to the Material Safety Data Sheet (MSDS) before handling.