



QUALITY CERTIFICATE MICRONOX ON16

Date of dispatch: 24/07/2019
 Batch: TR90
 Quantity: 3.24
 Ref: PVE/19/0313
 Order: 507425

PRODUCT DESCRIPTION

Type Natural Iron Oxide
Delivery form Powder
Chemical description Limonite

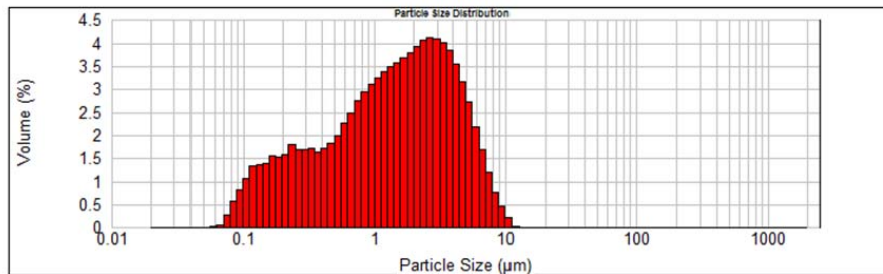
TECHNICAL SPECIFICATIONS

Property	Value	Unit	Test method
Moisture	1.23	wt %	ISO 787-2
Residue on sieve of 45 µm	≤0.01	wt %	ISO 787-7
Average particle size	2.08	µm	ISO 13320-1
d(0.5)	1.46	m ² /g	ISO 13320-1
pH	8.9	-	ISO 787-9

GRANULOMETRIC ANALYSIS (by laser diffraction)

Particle Name: limonite Vol. Weighted Mean D[4,3]: 2.076 µm Specific Surface Area: 10.2 m²/g
 Surface Weighted Mean D[3,2]: 0.588 µm
 d(0.1): 0.201 µm d(0.5): 1.455 µm d(0.9): 4.870 µm

Size (µm)	Vol Under %	Size (µm)	Vol Under %	Size (µm)	Vol Under %	Size (µm)	Vol Under %	Size (µm)	Vol Under %	Size (µm)	Vol Under %
0.020	0.00	0.142	5.46	1.002	39.08	7.096	97.38	50.238	100.00	355.656	100.00
0.022	0.00	0.159	6.85	1.125	42.31	7.982	98.68	56.368	100.00	399.052	100.00
0.025	0.00	0.178	8.39	1.282	45.68	8.934	99.34	63.248	100.00	447.744	100.00
0.028	0.00	0.200	9.91	1.416	49.16	10.024	99.78	70.963	100.00	502.377	100.00
0.032	0.00	0.224	11.49	1.589	52.71	11.247	99.99	79.621	100.00	563.677	100.00
0.036	0.00	0.252	13.29	1.783	56.38	12.619	100.00	89.337	100.00	632.456	100.00
0.040	0.00	0.283	14.99	2.000	60.16	14.159	100.00	100.237	100.00	709.627	100.00
0.045	0.00	0.317	16.67	2.244	64.08	15.887	100.00	112.468	100.00	796.214	100.00
0.050	0.00	0.356	18.38	2.518	68.13	17.825	100.00	128.191	100.00	893.367	100.00
0.056	0.00	0.399	20.02	2.825	72.22	20.000	100.00	141.589	100.00	1002.374	100.00
0.063	0.00	0.448	21.75	3.170	76.30	22.440	100.00	158.866	100.00	1124.883	100.00
0.071	0.05	0.502	23.56	3.557	80.30	25.179	100.00	178.250	100.00	1261.915	100.00
0.080	0.30	0.564	25.57	3.991	84.13	28.251	100.00	200.000	100.00	1415.892	100.00
0.089	0.87	0.632	27.83	4.477	87.66	31.698	100.00	224.404	100.00	1588.866	100.00
0.100	1.68	0.710	30.33	5.024	90.81	35.666	100.00	251.785	100.00	1782.502	100.00
0.112	2.75	0.796	33.06	5.637	93.51	39.905	100.00	282.508	100.00	2000.000	100.00
0.126	4.08	0.893	35.99	6.325	95.70	44.774	100.00	318.979	100.00		



R&D&i MANAGER
 Luciano Cuesta

QUALITY CONTROL MANAGER
 Dune Prat

