

Product Specification

Colloidal Silicon Dioxide, Cab-O-Sil® M-5P

Sl. No.	Parameters	Specification	Test Method
1.	Description	Must comply	USP-NF/ Ph. Eur./ JP
2.	Solubility test	Must comply	USP-NF/ Ph. Eur./ JP
3.	Ph, 4% aqueous slurry	3.60 – 4.30	CTM 100
4.	BET Specific Surface area, m ² /g.	200 ± 15	CTM 203
5.	Loss on drying at 105°C, 2h, %w/w	1.0 % max	CTM 231
6.	Tamped density, g/l	60 g/l max	CTM 211
7.	Mesh residue, 45 micron sieve %w/w	0.02 % Max	CTM 120
8.	Identification Tests	Must comply	USP-NF/ Ph. Eur./ JP
9.	pH Value	3.5 – 5.5	USP-NF/ Ph. Eur.
10.	Loss on Drying	Max. 2.5 %	USP-NF
		Max. 7.0 %	JP
11.	Loss on Ignition	Max. 2.0 %	USP-NF
		Max. 5.0 %	Ph. Eur.
		Max. 12.0 %	JP
12.	Arsenic	Max. 8 µg/g	USP-NF
		Max. 5 ppm	JP
13.	Chlorides	Max. 250 ppm	Ph. Eur.
		Max. 0.011%	JP
14.	Heavy Metals	Max. 25 ppm	Ph. Eur.
		Max. 40 ppm	JP
15.	Aluminium	Must comply	JP
16.	Iron	Max. 500 ppm	JP
17.	Calcium	Must comply	JP
18.	Volume Test	Must comply	JP
19.	Assay	99.0 – 100.5 %	USP-NF/ Ph. Eur.
		Min. 98.0%	JP

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