

Typical Limits And Specification of RanExplo-A (90&50 Micron)

Name of product Silicified Microcrystalline Cellulose
 Sample Tested as per: USP-NF /Customer specification

Grade : RanExplo-A (90 & 50 Micron)

S.N.	TEST	Specification LIMIT		RESULTS	
1	Description	A white or almost white powder. It consists of free flowing particles.		Complies	
2	Identification				
	a) Infrared Absorption	As per USP-NF		Complies	
	b) By chemical	The substance becomes violet blue.		Complies	
	c) By chemical	Yellow colour is obtained.		Complies	
	d) Silica Dispersion Uniformity / Variance of sieve fraction	NMT 0.02		0.006	
3	Conductivity	NMT 75 $\mu\text{S cm}^{-1}$		Within Limit	
4	pH	5.0 to 7.0		6.2	
5	Loss on Drying	NMT 6.0 % w/w.		3.2 % w/w	
6	Residue on Ignition	1.8 % - 2.2 % w/w		2.0 % w/w	
7	Water Soluble Substances	NMT 0.24 % w/w.		0.12 w/w	
8	Ether Soluble Substances	NMT 0.05 % w/w.		0.02 % w/w	
9	Heavy Metals	NMT 0.001 %		Within Limit	
10	Degree of polymerization	NMT 350		213	
11	Bulk Density Tapped Density	0.25 – 0.37 gm/ml. 0.37 – 0.50 gm/ml.		0.34 gm/ml 0.46 gm/ml	
12	Particle Size	90 Micron	50 Micron	90 μ	50 μ
	a)Retained on 60 mesh	Less than 8.0 % w/w	Less than 1.0 % w/w	Nil	Nil
	b)Retained on 200 mesh	Between 45.0 to 80.0 % w/w	Between 5.0 to 30.0 % w/w	64.5% w/w	23.5% w/w
13	Whiteness	NLT 85 %.		86.3%	
14	Microbial Limits				
	a) Total viable aerobic count	NMT 100 cfu / gm		10 cfu / gm	
	b) Total fungal count (Y & M)	NMT 20 cfu / gm		10 cfu / gm	
	c) Escherichia coli	Absent		Complies	
	d) Salmonella	Absent		Complies	
	e) Pseudomonas aeruginosa	Absent		Complies	
	f) Staphylococcus aureus	Absent		Complies	

