



PRODUCT NAME : MAGNESIUM STEARATE – IP

SR.NO	TEST	LIMIT
1	Description	A very fine, light, white powder; odourless or with a very faint odour of stearic acid; unctuous and free from grittiness.
2	Solubility	Practically insoluble in water, in ethanol and in ether.
3	Identification Identification A <2.4.11> Identification B <2.3.23> Identification C Identification D, magnesium salt<2.3.1>	A. freezing point of residue is not lower than 53° B. Acid value of the fatty acid 195 to 210 C. Fatty acid composition by GC D. (1) a white crystalline precipitate is produced. (2) A bright red turbidity develops which gradually settles to give a bright red ppt.
4	Appearance of solution<2.4.1>	Solution A is not more intensely coloured than reference solution YS6.
5	Appearance of solution of the fatty acids<2.4.1>	Solution is clear and not more intensely coloured than reference solution YS5.
6	Acidity or alkalinity	NMT 0.05ml 0.1M HCL or 0.1 M NaOH is required to change the color of the solution.
7	Acid value of the fatty acid<2.3.23>	Between 195 to 210
8	Free stearic acid	NMT 3%
9	Zinc stearate	No Violet precipitate formed
10	Heavy metals, Method D <2.3.13>	NMT 20 ppm
11	Chlorides<2.3.12>	NMT 250ppm
12	Sulphates<2.3.17>	NMT 0.6%
13	Loss on drying<2.4.19> (at 105 °C for 3 h.)	NMT 6.0%
14	Assay (Dried basis)	Between 3.8% to 5.0%
15	Fatty acid composition<2.4.13>	Stearic acid NLT 40 % Sum of stearic acid & Palmitic acid NLT 90 %
16	Total aerobic microbial Count Total combined molds and yeasts Salmonella species E.coli	NMT 1000 CFU/g NMT 500CFU/g Absent Absent