

## CERTIFICATE OF ANALYSIS

<b>NAME OF PRODUCT</b>	<b>LEEPOL™ 971</b>	<b>GENERIC NAME</b>	<b>ACRYLATE CO POLYMER</b>
BATCH NO	10020001		
MFG. MONTH	MAR – 2021	DATE	17/03/2021
EXP. MONTH	FEB – 2026	REF NO.	TLC/971

TEST	SPECIFICATION	RESULTS
Description	White fluffy, hygroscopic powder having a slight, characteristic odour. The pH of 1 in 100 dispersion in water is about 3.	White fluffy, hygroscopic powder having a slight, characteristic odour. The pH of 1 in 100 dispersion in water is about 3.
Solubility	When neutralize with alkali hydroxide or amine it dissolve in water, alcohol and glycerine.	When neutralize with alkali hydroxide or amine it dissolve in water, alcohol and glycerine.
Identification	Gel formulation after the neutralization of the dispersion	Gel formulation after the neutralization of the dispersion
	(1) 1 % Dispersion with Thymol Blue-Orange colour	Orange colour
	(2) 1 % Dispersion with cresol Red-Yellow colour	Yellow colour
Viscosity (0.5 % in water)	Between 4,000 to 11,000 mPas	9,000 mPas
Loss on Drying	NMT 2.0 %	0.85 %
Total Heavy Metals	NMT 0.002%	<0.002%
Limit of Benzene	NMT 0.5 %	Nil
Assay for carboxylic acid content	Between 56.0 % to 68.0 %	59.06 %
Residual Monomer (Free Acrylic Acid)	NMT 0.25%	0.24%
Clarity Of 0.5% Solution In Reference With Water at 420 nm Spectrophotometer	Not Less Than 85 %	93 %

\* Specification as per finished product specification. Meeting requirement of USP/NF.