



CERTIFICATE OF ANALYSIS

PRODUCT NAME : ACRYPOL 971P
 BATCH NO. : 44218004
 MFG. DATE : Jul-2018
 RETEST DATE : Jun-2021

ISSUE DATE.: 03-Jul-2018
 A.R.NO. : A181910002131

The supply as detailed above has been tested and found to meet the requirement as below on sample basis.

SR.No	PARAMETER	UNIT	SPECIFICATION	RESULTS
1	DESCRIPTION		WHITE, FLUFFY HYGROSCOPIC POWDER, HAVING A SLIGHT, CHARACTERISTIC ODOR. THE PH OF 1 IN 100 DISPERSION IN WATER IS ABOUT 3.	WHITE, FLUFFY HYGROSCOPIC POWDER, HAVING A SLIGHT, CHARACTERISTIC ODOR. THE PH OF 1 IN 100 DISPERSION IN WATER IS ABOUT 3.
2	SOLUBILITY		A. WHEN NEUTRALIZED WITH ALKALI HYDROXIDES OR WITH AMINES, IT SWELLS GIVING THE APPEARANCE OF DISSOLVING IN WATER.	A. COMPLIES
3	SOLUBILITY		B. WHEN NEUTRALIZED WITH LOWER AMINES AND ALKANOLAMINES, IT SWELLS GIVING THE APPEARANCE OF DISSOLVING IN METHANOL OR GLYCERIN.	B. COMPLIES
4	SOLUBILITY		C. WHEN NEUTRALIZED WITH ETHOXYLATED LONG-CHAIN AMINES, IT SWELLS GIVING THE APPEARANCE OF DISSOLVING IN ETHANOL.	C. COMPLIES
5	IDENTIFICATION		INFRARED ABSORPTION	MATCHED WITH STANDARD SPECTRUM
6	IDENTIFICATION		A VISCOUS GEL IS PRODUCED	COMPLIES
7	IDENTIFICATION		10 mL GEL WITH 2 mL OF CaCl ₂ SOLUTION (100 mg/mL) - WHITE PRECIPITATE FORMED	WHITE PRECIPITATE FORMED
8	IDENTIFICATION		10 mg/mL DISPERSION WITH THYMOL BLUE - ORANGE COLOR	ORANGE COLOR PRODUCED
9	IDENTIFICATION		10 mg/mL DISPERSION WITH CRESOL RED - YELLOW COLOR	YELLOW COLOR PRODUCED
10	VISCOSITY	mPa.s	4000 TO 11000	7800
11	LOSS ON DRYING (IN A VACUUM AT 80°C FOR 1 HOUR)	%	NMT 2.0	0.78
12	RESIDUE ON IGNITION	%	NMT 4.0	0.92
13	RESIDUAL SOLVENT (CYCLOHEXANE)	%	NMT 0.3	Not Detected
14	RESIDUAL SOLVENT (ETHYL ACETATE)	%	NMT 0.5	Not Detected
15	LIMIT OF BENZENE	µg/gm	NMT 2	Not Detected
16	LIMIT OF ACRYLIC ACID	%	NMT 0.25	0.21
17	ASSAY FOR CARBOXYLIC ACID CONTENT	%	56.0 TO 68.0	57.82

STATUS : Approve Above Spec.

* Specification as per finished product specification [QC/WI/339(05)] (Carbomer Homopolymer Type A). Meeting requirement of USP/NF.

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The Next Generation Polymer Technologist

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