



CERTIFICATE OF ANALYSIS

PRODUCT NAME : ACRYPOL 980
 BATCH NO. : 11517042
 MFG. MONTH : Dec-2017
 RETEST. MONTH : Nov-2022

ISSUE DATE : 09-Dec-2017
 A.R.NO. : A171810005044

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. WHEN NEUTRALIZED WITH ALKALI HYDROXIDES OR WITH AMINES, IT SWELLS GIVING THE APPEARANCE OF DISSOLVING IN WATER.
3	SOLUBILITY		B. WHEN NEUTRALIZED WITH LOWER AMINES AND ALKANOLAMINES, IT SWELLS GIVING THE APPEARANCE OF DISSOLVING IN METHANOL OR GLYCERIN.	B. WHEN NEUTRALIZED WITH LOWER AMINES AND ALKANOLAMINES, IT SWELLS GIVING THE APPEARANCE OF DISSOLVING IN METHANOL OR GLYCERIN.
4	SOLUBILITY		C. WHEN NEUTRALIZED WITH ETHOXYLATED LONG-CHAIN AMINES, IT SWELLS GIVING THE APPEARANCE OF DISSOLVING IN ETHANOL.	C. WHEN NEUTRALIZED WITH ETHOXYLATED LONG-CHAIN AMINES, IT SWELLS GIVING THE APPEARANCE OF DISSOLVING IN ETHANOL.
5	IDENTIFICATION		IR SPECTROMETRY	IR SPECTROMETRY
6	IDENTIFICATION		GEL FORMULATION AFTER THE NEUTRALIZATION OF THE DISPERSION	GEL FORMULATION AFTER THE NEUTRALIZATION OF THE DISPERSION.
7	IDENTIFICATION		10 ML GEL WITH 2 ML OF 10% CaCl ₂ , WHITE PRECIPITATE FORMED	10 ML GEL WITH 2 ML OF 10% CaCl ₂ , WHITE PRECIPITATE FORMED
8	IDENTIFICATION		1% DISPERSION WITH THYMOL BLUE ORANGE COLOUR AND 1% DISPERSION WITH CRESOL RED YELLOW COLOUR.	1% DISPERSION WITH THYMOL BLUE ORANGE COLOUR AND 1% DISPERSION WITH CRESOL RED YELLOW COLOUR.
9	VISCOSITY	mPa.s	40000 TO 60000	45000
10	LOSS ON DRYING (IN A VACUUM AT 80°C FOR 1 HOUR)	%	NMT 2.0	0.8
11	RESIDUE ON IGNITION	%	NMT 4.0	0.98
12	LIMIT OF BENZENE	ppm	NMT 2	Not Detected
13	RESIDUAL SOLVENT (ETHYL ACETATE)	%	NMT 0.5	Not Detected
14	RESIDUAL SOLVENT (CYCLOHEXANE)	%	NMT 0.3	Not Detected
15	RESIDUAL MONOMER (FREE ACRYLIC ACID)	%	NMT 0.25	0.2
16	ASSAY FOR CARBOXYLIC ACID CONTENT	%	56.0 TO 68.0	57.12

STATUS : Approve Above Spec.

* Specification as per finished product specification [QC/WI/342/04] (Carbomer Homopolymer, Type C) Meeting requirement of USP/NF.



TESTED BY
(Q.C. Executive)

CHECKED BY
(Q.C. In-Charge)

APPROVED BY
(Q.C. Manager)

The Next Generation Polymer Technologist

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