

CARBOPOL®* 956 POLYMER

General Product Characteristics

Appearance: White, fluffy powder
 Odor: Slightly acetic

Test	Specification	Lot Test Frequency ¹	Test Procedure
Identification Infrared spectrum	Pass	--- ²	---
Viscosity, cP, 25°C Brookfield RVT, 20 rpm, neutralized to pH 7.3 - 7.8 0.5 wt% mucilage, spindle #6	20,700 - 41,300	1:1	Lubrizol 430-I
Loss on Drying, %	2.0 max	1:10	Lubrizol SA-004
Heavy Metals, ppm Total heavy metals, as Pb Specific metals: Iron Arsenic Chromium, Cadmium, Mercury	20 max 15 max 1 max 5 max total	1:6 months 1:6 months	Lubrizol SA-011 Lubrizol SA-012
Residual Solvent³ Ethyl acetate,% Benzene, ppm	1.0 max <QL ³	1:1 1:1	Lubrizol SA-009 Lubrizol SA-064
Residual Monomer Free Acrylic Acid, ppm	1,000 max	1:1	Lubrizol SA-005

¹ Where lot test frequency is less than 1:1, statistical quality control determines the parameter to be within specification limits. Actual values are not reported on the COA, but compliance within established limits is assured.

² Infrared reference spectra available upon request.

³ No other residual solvents as listed in the ICH Q3C Guideline on Residual Solvents are used or are an expected by-product in the manufacturing process of this product. A result of "<QL" for benzene indicates that the batch was assayed for benzene and yielded an analysis below the 0.250 ppm quantitation limit (QL) of the Lubrizol test method for this substance.