ASTM D2245 – 90 Standard Test Method for Identification of Oils and Oil Acids in Solvent-Reducible Paints by GC-FID

Significance and Use

This test method provides a procedure to identify the fatty acids present in the vehicle of a paint.

1. Scope

1.1 This test method covers the identification of oils and oil acids in vehicles that have been separated from solvent-reducible paints. The test method is based on a gas chromatographic technique (of the methyl esters) applicable to products containing both saturated and unsaturated, animal and vegetable, unpolymerized or partially polymerized fatty acids having 8 to 20 carbon atoms.

1.2 This test method is not applicable to products containing fatty acids that have been polymerized or oxidized to such an extent that no characteristic monomeric fatty acids remain.

1.3 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

1.4 Suggested GC Columns are: 60 m x 0.25 mm x 0.2 µm CP-Sil 88, BPX70, CG-CN100, or TR-FAME.

2. Referenced Documents *(purchase separately)*

ASTM Standards

D1398 Test Method for Fatty Acid Content of Alkyd Resins and Alkyd Resin Solutions

D1983 Test Method for Fatty Acid Composition by Gas-Liquid Chromatography of Methyl Esters

D2372 Practice for Separation of Vehicle From Solvent-Reducible Paints

D2800 Test Method for Preparation of Methyl Esters From Oils for Determination of Fatty Acid Composition by Gas-Liquid Chromatography

http://www.astm.org/Standards/D2245.htm