

ASTM D2225-04(2012) Standard Test Methods for Silicone Fluids Used for Electrical Insulation

Significance and Use

4.1 Tests covered in this standard may be used for quality control and design considerations.

4.2 Included in each test method is a brief statement describing its significance.

1. Scope

1.1 These test methods cover the testing of silicone fluids for use in transformers, capacitors, and electronic assemblies as an insulating or cooling medium, or both. These methods are generally suitable for specification acceptance, factory control, referee testing, and research.

1.2 Although some of the test methods listed here apply primarily to petroleum-based fluids, they are, with minor revisions, equally applicable to silicone fluids.

1.3 Silicone fluids are used for electrical insulating purposes because of their stable properties at high and low temperatures and their relative environmental inertness.

1.4 A list of the properties and standards are as follows:

Property Measured	Section	ASTM Test Method
<i>Physical:</i>		
Color	6	<u>D2129</u>
Flash point	7	<u>D92</u>
Fire point	7	<u>D92</u>
Polychlorinated biphenyl content	8	<u>D4059</u>

2. Referenced Documents *(purchase separately)*

ASTM Standards

D4059 Test Method for Analysis of Polychlorinated Biphenyls in Insulating Liquids by Gas Chromatography

Reference: <http://www.astm.org/Standards/D2225.htm>