

CHLORINATED AROMATIC HYDROCARBONS FOR TRANSFORMERS (D 2283)

Table 1 - Detail Requirements for Askarels for Transformers

Property	<i>INERTEEN PPG</i> Type A	<i>PYRANOL</i> Type B	<i>80% INERT 20% TCCB</i> Type C	<i>INERTEEN</i> Type D	ASTM Test Method ^d
Acidity, Max, mg KOH/g	0.014	0.014	0.014	0.014	D 974, D 6
Color, APHA, max	150	150	150	150	D 2129
Condition	clear	clear	clear	clear	(visual)
Chlorides, inorganic, max, ppm	0.1	0.1	0.1	0.1	D 1821
Dielectric constant @ 100 C/1 Kc	3.7 to 4.0	3.8 to 4.3	4.4 to 4.9	4.2 to 4.5	D 924
Dielectric strength, min, kv	35	35	35	35	D 877
Fire point ^a	none to boiling	none to boiling	none to boiling	none to boiling	D 92
Pour point, max, deg C	-32	-44	-30	-30	D 97
Refractive index	1.6137 to 1.6147	1.6075 to 1.6085	1.6146 to 1.6166	1.6153 to 1.6173	D 1807
Resistivity at 100°C, d-c, min, ^b ohm-cm	100 x 10 ⁹	100 x 10 ⁹	100 x 10 ⁹	100 x 10 ⁹	D 1169
Scavenger content, percent:					
Phenoxypropene oxide	0.2 ± 0.01			0.2 ± 0.01	
Diepoxide-type compound		0.115 to 0.135	0.115 to 0.135		
Specific gravity	1.560 to 1.568	1.560 to 1.571	1.412 to 1.425	1.518 to 1.528	D 1810
Coefficient of thermal expansion, ^c cm ³ /cm ³ deg C	0.0007	0.0007	0.0007	0.0007	D 1903
Viscosity, Saybolt Universal, sec at 37.8C	52 to 56	41 to 45	50 to 55	56 to 61	D 88
Water content, Max, ppm	30	30	30	30	D 1533

^aWhen testing for fire point, a pseudo-flash may be observed; it differs noticeably from the flash obtained on combustible materials and is not indicative of a fire hazard.

^bSection 2, Note 3.

^cThese are approximate values included for information only.

^dThese designations refer to the following methods of the American Society for Testing and Materials:

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