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IBT File

#1470 PYRANOL SPECIFICATIONS

General Characteristics: (As received)

Physical Properties:

Viscosity S.U.S. 37.8°C	40 - 43
Specific Gravity 15.5/15.5°C	1.563 - 1.571
Color, APH	150 maximum
Pour Point °C	lower than -44
Fire Point °C	none up to boiling point
Condition	Clear
Distillation Range °C (corrected) (% by volume)	1st drop 210 minimum 35% 232 - 240 35% 275 - 300 65% 380 - 390 90% 390 - 400
Refractive Index 25°C	1.6075 - 1.6085

Chemical Properties:

Acidity (MgKOH/g)	.014 maximum
Free Chlorides, ppm	.10 maximum
(Tin tetraphenyl content %)	0.125% ± .01% by weight
Fixed Chlorine %	60.5 ± 0.5
Corrosion Test	After heating with aluminum for six hours at 200 - 220°C, the aluminum must not be corroded either on visual or weight inspection and the Pyranol should meet the following specifications:

Color	200 APH
Acidity	.01 maximum
Free Chlorides	(5 maximum)
Condition	Clear

Arc - formed gases (oxygen-free liquid at 25°C)	Less than 1.0% total combustible gases including carbon monoxide, hydrogen, and volatile hydrocarbons.
Water content, ppm	30 maximum

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Electrical Properties:

Dielectric strength, 25°C KV	35 minimum
Resistivity, 100°C, 500 VDC (ohm/cm^3)	100 x 10^9 minimum
Dielectric Constant, 1000 cycles	
25°C	4.4 - 4.7
100°C	5.8 - 4.1
Electrical Stability	After heating for 96 hours at 100°C in a closed container, the resistivity shall not decrease more than 10 percent.

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