Super Hyslik 200®

TAIH

Thermal Class: 200°C (Copper)
220°C (Aluminum)

Features and Benefits

Super Hyslik 200 includes a proprietary internal lubricating system to aid windability and insertion.

- Tough abrasion-resistant surface which withstands automated winding operations.
- Excellent dielectric performance.
- Superior chemical and moisture resistance, especially with refrigerants in hermetic applications.
- Superior thermal overload protection, especially during locked-rotor conditions.
- Superior performance in hermetics.

(See chemical data)

Basecoat

High thermal endurance

High temperature dielectric

Resists thermoplastic flow

Excellent adhesion and flexibility

Topcoat

Heat shock resistant

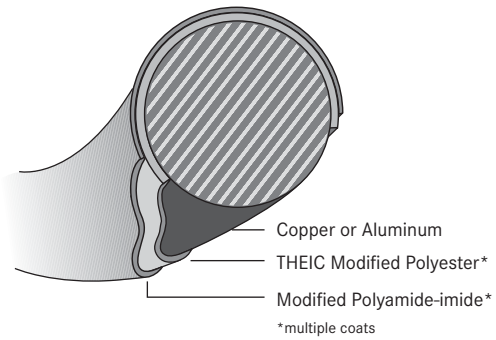
Moisture resistant

Surface toughness

Chemical resistant

Typical Applications:

Dry-type transformers, hermetic motors, tool motors, automotive alternator stators, solenoids, high-voltage transformers, and toroidal transformers



*multiple coats

General Information

References are provided for comparative purposes

Round

NEMA: MW 35-C, MW-73-C
MW-35-A, MW-73-A
UL: File No. E37683

Availability

Round	single	heavy
copper	14-38 AWG	4-37 AWG
aluminum	14-27 AWG	6-27 AWG

Rea

Typical Properties

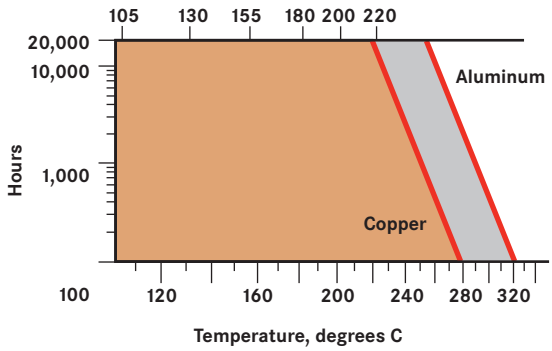
This data is typical of 18 AWG copper, heavy build insulation only. It is not intended to be used to create specification limits.

Thermal

Thermal Endurance		
20,000 hr life	>210°C	
Thermoplastic Flow	**minimum**	**typical**
	300°C	350°C
Heat Shock (20% 3x)		
1/2 hr at 220°C minimum no cracks 1/2 hr at 240°C minimum no cracks		
Stress Relief Temperature		
160°C		

Measured Thermal Endurance

Expected Thermal Life (ASTM D 2307),
18 AWG, Heavy Build Insulation



Mechanical

Mandrel Flexibility	minimum	typical
After Elongation	20% 3x OK	30% 1x OK
After Snap	3x OK	1x OK
Unilateral Scrape		
Avg. of 3 sides	1150 gms	1700 gms
Repeated Scrape		
700 gms	60 strokes	100 strokes
Dynamic C of F		
		0.046

Electrical

Dialectric Breakdown	
@ RT	11.0 kV
@ 200°C	7.0 kV
High Voltage Continuity	
NEMA @ 1500 V DC:	5 faults/100 feet max
typical @ 2000 V DC:	0-1 faults/100 feet

Chemical

Retained Dialectric
After 72 hrs exposure to R-22 + 300°C conditioning:
3.5 kV
R-22 Extractables
.08%
Resistance to Solvents Including
After 24 hrs @ RT: Pass,
Xylene 50/50 Cellosolve/Xylene Perchloroethylene 1% NaOH 28% Sulfuric Acid Gasohol

3600 East Pontiac Street · P. O. Box 6128, Fort Wayne, Indiana 46896-0128 · Toll Free: 800-Rea-Wire (732-9473) · Email: sales@reawire.com · www.reawire.com