Interim Product Bulletin
12/72

DEVELOPMENTAL SYNTHETIC FLUIDS

THERMINOL 44®

Typical Physical Properties

Operating Range, °F	-60 to 425°F
Appearance	Clear yellow liquid
Odor	Faint
Flash Point, C.O.C., °F	405°
Fire Point, C.O.C., °F	438°
A.I.T., °F	705°
Pour Point, °F	-80° to -90°
Viscosity, cs	
-65°F	6450
100°F	8.80
200°F	2.70
300°F	1.30
400°F	0.85
500°F	0.57
Specific Gravity, g/cc	
-65°F	0.980
75°F	0.920
100°F	0.915
200°F	0.845
300°F	0.825
400°F	0.780

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MONSANTO COMPANY • 800 NORTH LINDBERGH BLVD. • ST. LOUIS, MO. 63166

TO ASSIST YOU IN THE EVALUATION OF THE ABOVE PRODUCT, WE HAVE OBTAINED THE INFORMATION CONTAINED IN THIS BULLETIN FROM LITERATURE SOURCES AND PRELIMINARY INVESTIGATION IN OUR OWN LABORATORIES. WHILE WE BELIEVE THE INFORMATION IS ACCURATE, WE ASSUME NO RESPONSIBILITY AND DISCLAIM ANY LIABILITY INCURRED IN USING THESE DATA OR SUGGESTIONS. ONLY QUALIFIED TECHNICAL PERSONNEL SHOULD WORK WITH THIS PRODUCT UNTIL SUBSEQUENT STUDIES JUSTIFY ITS USE IN YOUR PRODUCTS OR PROCESSES. OBVIOUSLY NOTHING IN THIS BULLETIN SHOULD BE CONSTRUED AS A RECOMMENDATION TO USE ANY PRODUCT IN CONFLICT WITH EXISTING PATENTS COVERING ANY MATERIAL OR ITS USE.

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Specific Heat, Btu/lb.-°F	
0°F	0.443
100°F	0.476
200°F	0.508
300°F	0.542
400°F	0.574

Thermal Conductivity, Btu/hr.-ft.°F	
0°F	0.0847
100°F	0.0806
200°F	0.0760
300°F	0.0710
400°F	0.0651

Vapor Pressure, mm Hg	
300°F	<1.0
400°F	6.0
500°F	45.0
600°F	--
640°F	760.0

Toxicity

Therminol 44 is classified as practically non-toxic based on acute oral and acute skin absorption studies on rats and rabbits.

This product is classified as mild skin and eye irritant.

This product is classified as practically non-toxic in acute vapor inhalation tests.

This product requires no special handling precautions nor should it present an environmental hazard.

Therminol 44 is intended for indirect heating purposes only. Under no circumstances should heat transfer fluids contact or in any way contaminate food, animal feed, food products, food packaging materials, pharmaceuticals or any food related items. Any such contact may contaminate these items to the extent their destruction may be required.

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