



# THERMYL-TUFF

MAXIMUM LOAD SYNTHETIC LUBRICANT

## BEYOND SYNTHETIC®

Thermyl-Tuff is recommended for booms on hydraulic cranes, heavily loaded open gears, skid rails, bushings, couplings, bearings, cables, etc., or low speed bearings operating at high temperatures.

Thermyl-Tuff is a viscous, tacky, semi-fluid lubricant that protects extremely heavily loaded sliding surfaces such as open gears, skid rails, etc., where other EP products

perform poorly or even fail. Thermyl-Tuff cannot be washed off by water and its superior synthetic corrosion inhibitors provide outstanding protection in wet and / or corrosive environments.

Thermyl-Tuff is an undyed product.

## SYNSLIDE® ADDITIVE TECHNOLOGY MAKES THE DIFFERENCE!

Synthetic oils enable Royal Purple to make superior lubricants, but it is Royal Purple's advanced Synslide additive technology that gives Royal Purple's EP lubricants their amazing performance advantages. Synslide additive technology truly is beyond synthetic.

Synslide additive technology, Royal Purple's tough, EP lubricating film, provides maximum protection under boundary lubrication conditions typically caused by heavily loaded, slow speed and/or shock load conditions. This tenacious, slippery film significantly improves lubrication and reduces wear by increasing the oil film

thickness and toughness, which helps to prevent metal-to-metal contact in gears and bearings.

Synslide additive technology is noncorrosive to gears and bearings, including case-hardened gears that are easily pitted by conventional sulfur-phosphorus EP oils.

Synslide additive technology displaces water from metal surfaces and excels in protecting equipment in wet environments. It also fortifies the oil against the detrimental effects of heat, which causes oil to oxidize.

## PERFORMANCE ADVANTAGES

**SEVERE SERVICE PERFORMANCE** - Thermyl-Tuff provides unbelievably smooth, extreme pressure performance.

**ADHESIVE LUBRICANT** - Thermyl-Tuff will not be squeezed or channeled from pressure areas.

**CONTAINS CUSHIONING MOLECULES** - Thermyl-Tuff dampens sudden severe shock loads.

**HYDROPHOBIC** - Thermyl-Tuff remains unaffected by fresh and saltwater.

**GREATER LUBRICITY** - Thermyl-Tuff noticeably reduces wear and saves energy.

**EXCELLENT CORROSION PROTECTION** - Thermyl-Tuff protects all metals during operation and shutdown.

**COMPATIBLE WITH OTHER OILS** - Thermyl-Tuff is compatible with mineral oils and most synthetic oils.

**EASY TO USE** - Thermyl-Tuff can be pumped, painted or swabbed onto exposed gears, rails, etc.

**LONG LASTING** - Thermyl-Tuff uses less lubricant, lasts longer and extends relubrication intervals.



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## TECHNICAL DATA

Property	Test Method	200	300
<b>Viscosity @ 40°C, cSt</b>	ASTM D445	8569.7	15675
<b>Viscosity @ 100°C, cSt</b>	ASTM D445	264.8	474.8
<b>Viscosity Index</b>	ASTM D2270	136	165
<b>Flash Point, °F/°C</b>	ASTM D92	420 (216)	410 (210)
<b>Pour Point, °F/°C</b>	ASTM D6892	21 (-6)	27 (-3)
<b>Copper Corrosion Test</b>	ASTM D130	1A	1A
<b>Rust Test, Fresh Water</b>	ASTM D665	PASS	PASS
<b>Rust Test, Salt Water</b>	ASTM D665	PASS	PASS
<b>4-Ball EP, Load Wear Index</b>	ASTM D2783	63	78.6
<b>4-Ball EP, Weld Load, kg</b>	ASTM D2783	315	400
<b>Density, lbs/g</b>	ASTM D4052	7.53	7.57
<b>Water Solubility</b>		Insoluble	Insoluble

\*Properties are typical and may vary.

REVISED 12/11/2018