



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.

| | | ISO Grade | |
|-----------------------|--------|-----------|-----------|
| Typical Properties* | Method | 200 | 300 |
| Viscosity | D-445 | | |
| cSt @ 40°C | | 8569.7 | 15675 |
| cSt @ 100°C | | 264.8 | 474.8 |
| Viscosity Index | D-2270 | 136 | 165 |
| Flash Point, °F/°C | D-92 | 420/216 | 410/210 |
| Pour Point, °F/°C | D-6892 | 21/-6 | 27/-3 |
| Copper Corrosion Test | D-130 | 1A | 1A |
| Rust Test | D-665 | | |
| Fresh Water | | PASS | PASS |
| Salt Water | | PASS | PASS |
| Four Ball EP Test | D-2783 | | |
| Load Wear Index | | 63 | 78.6 |
| Weld Load, kgf | | 315 | 400 |
| Density, lbs/g | D-4052 | 7.53 | 7.57 |
| Water Solubility | | Insoluble | Insoluble |

**Properties are typical and may vary.*