



**TECHNILUBE** is a solid-film lubricant developed specifically for the automotive industry. It is a Tin/Bismuth alloy with sub-micron, self lubricating particles incorporated in its matrix. Because of its natural lubricity and anit-galling properties, Tin has long been used as a dry lubricant to reduce or eliminate wear or galling of mating surfaces. Techmetals has taken this idea and enhanced the properties of the coating to reach new levels of performance. The addition of Bismuth to the Tin maintains the coating's integrity at lower temperatures. The addition of the self-lubricating particles enhances the lubricity of the coating to achieve the ultimate performance in certain wear applications.

## **USER BENEFITS**

**Low Coefficient of Friction & High Lubricity**

**Can be Rack or Barrel Plated**

**Long-Lasting lubricant & Anti-Galling Properties**

**Economical**

**Good Corrosion Protection**

## **PROPERTIES**

|                                  |  |
|----------------------------------|--|
| Density                          | 7.25 gr/cc   |
| Melting Point                    | 231.9 °C   |
| Boiling Point                    | 2507 °C  |
| Hardness                         | 2.9 Brinell  |
| Coefficient of friction (static) | .187 (when tested against 6061 aluminum with an 11-12 $\mu$ in finish) |



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