

Supplier - SMART OIL  
**Smart DTO**  
*Distilled Tall Oil*  
*Boundary Lubricating Additives*

**Typical Properties**

Appearance	Light Amber Liquid
Specific Gravity@25°C	0.900 - 1.000
Viscosity@40°C, cSt	50 - 70
Acid Value, mgKOH/g	190 - 260
Flash Point C.O.C., °C	> 200
Drop Point, °C	2
Water Content, %wt	< 0.1
Ash Content, %wt	< 0.01
Colophonic Acid Content, %wt	28 - 32
Unsaponifiable Content, %wt	4.5
Total Fatty Acid Content, %wt	66
Non-Volatile Material Content@230°C, %wt	0.4

**Product Description**

**SMART DTO** has high rosin content, approximately 30%.

**SMART DTO** is an excellent lubricant and co-emulsifier, suitable for blending soluble oils and semi-synthetic fluids.

**SMART DTO** can provide good lubricating property and improve surface finishing of the workpieces.

**SMART DTO** also can be used to fine tune the pH value of water-based systems to achieve better equilibrium.

**Applications**

General Application

**Suggested Treat Rates, %wt**

1 - 30

Print date: 13-06-26

*Disclaimer: Information provided by this website and product page including specifications, applications and formulations are based on tests and data supplied by Smart Oil companies, manufacturers or any of our collaborated companies or suppliers, which are believed to be correct and reliable at the time of writing and data update. However, Smart Oil companies, manufacturers or any of our collaborated companies or suppliers make no warranty or responsibility, express or implied, of any kind regarding products, performance, formulations or applications, as operation conditions and application environments are beyond our control, or products will be modified by action of manufacturers or due to change in market environments. Users are herewith expressly requested to conduct test to determine the suitability of our products or product information before use. Furthermore, we regret that we cannot be responsible for informing customers any changes in specifications, formulations, or other technical contents on this website and product page. Also, We hereby state that all product trademarks other than Smart Oil, including trademarks from our , suppliers are the trademarks belong to the respective companies, or from their sources.*