

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

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