



## Focus Ester 603

### *Polymerized Branched-Chain Vegetable Ester*

#### Product Description

**Focus Ester 603** is a vegetable-based polymerized ester designed to boost performance and enhance finish in severe metalworking applications, especially aluminum applications and drawing and stamping. **Focus Ester 603** is a unique medium molecular weight ester designed to offer the highest lubricity and film strength. **Focus Ester 603** is a branched-chain ester, which offers the highest level of hydrolytic, oxidative and biostability properties. **Focus Ester 603** can replace or enhance traditional fats, esters and extreme pressure friction modifiers.

#### Applications

- Machining coolants in combination with amide or EO/PO chemistry
- Additional anti-corrosion and lubrication properties to any water-dilutable fluid
- Water-dilutable drawing and stamping fluids
- Micro-emulsions
- Treat levels of 1% -15% in the concentrate are suggested

#### Benefits

- Excellent thermal, oxidative and hydrolytic stability
- Ashless: will not cause staining
- Light in color with no odor
- Replaces all fats and fatty compounds, reducing biological attack

#### Typical Properties

Feature	Data
Appearance	Clear viscous amber liquid
Specific gravity, 60F (15.6C)	0.999
Viscosity (cst) @ 40C	4,720
@ 100C	356
Viscosity index	231
Acid number (mgKOH/g)	14.0

#### Packaging

Packaging	Description	Net Wt.
Drums	55 gallon non-returnable	435 lbs
Totes	275 gallon non-returnable	2,175 lbs

#### Registration

USA	TSCA
Canada	DSL
Europe	EINECS

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