



## Focus PAS 10 and Focus PAS 15

### *Sulfurized Polymeric Ester – Extreme Pressure/Lubricity Additive*

#### Product Description

**Focus PAS 10** and **Focus PAS 15** are light-colored, low odor, high molecular weight sulfurized additives. They are extreme pressure and lubricity additives, imparting outstanding metal removal while giving excellent lubrication properties to the finished fluid. They are inactive to copper @ 100 C. They contain no chlorine or phosphorous.

#### Performance Features

**Focus PAS 10** and **Focus PAS 15** totally replace chlorinated paraffins and chlorinated fatty acids in industrial cutting oils and soluble oils. They are designed for machining stainless steel and other hard metals.

**Focus PAS 10** and **Focus PAS 15** are non-staining per the ASTM D-130 copper strip test. Both products are soluble in paraffinic and naphthenic base oils.

#### Typical Properties

Feature	Data	
	Focus PAS 10	Focus PAS 15
Appearances	Light amber	Light amber
Specific gravity @ 25 C	0.97	1.01
Weight per gallon	8.08	8.41
Flash point C (COC)	340	315
Viscosity (cSt) @ 40 C	270	860
Viscosity (cSt) @ 100 C	34	83
Viscosity index	172	180
Sulfur content (% wt.)	10	15
Copper strip test (10% wt.) (ASTM D-130, 3 hr @ 100 C)	1b	1b
Four ball EP weld (kg) (5%, HVI 100 SUS oil)	400	500

#### Packaging

Packaging	Description	Net Wt.
Drums	55 gallon non-returnable	435 lbs

#### Registration

USA	TSCA
Canada	DSL

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