

# Zeal Velocity SM 10, 15, 22

High Performance Sewing Machine Oils



## Product Data Sheet

### Product Description

Zeal Velocity SM range of lubricants are premium quality oils specifically formulated for the lubrication of high-speed machine elements in industrial sewing machines. These oils are formulated from very high quality hydro-treated, low viscosity base oils and optimum additive technology system to provide improved thermal, oxidation and color stability. They are available in three viscosity grades, Zeal Velocity SM 10 (ISO VG 10), SM 15 (ISO VG 15) and SM 22 (ISO VG 22).

### Features & Benefits

- Excellent protection and lubrication of bearings, worm gears and cams, helps in reducing equipment downtime and energy loss.
- Excellent oxidation stability prevents product deterioration and extends oil life
- Enhanced color stability ensures product does not change color and stain fabric.
- Effective corrosion protection results in longer equipment life and reduced maintenance costs.
- Good water washability characteristics.

### Specifications

**Zeal Velocity SM series meets or exceeds following International and Builder specifications:**

- DIN 51524 Part 2 HLP type
- Denison HF-0 (T6H20C)
- ISO 11158 (HM fluids)
- Cincinnati Machine P-62

### Application

Zeal Velocity SM series are suitable for use in low to moderate pressure Hydraulic systems, where low viscosity oils are recommended.

- Suitable for use in high-speed components of industrial sewing machines, bearings and spindles.
- Also suitable for use in low to moderate duty worm gears and cams systems.

### Typical Characteristics

Zeal Velocity	Test Method	Units	SM 10	SM 15	SM 22
ISO Viscosity Grade	ISO 3448	-	10	15	22
Color	ASTM D 1500	-	0.5	<0.5	<0.5
Appearance	Visual	-	Light Color Liquid		
Density @ 15 °C	ASTM D 4052	gm/cc	0.835	0.840	0.845
Viscosity @ 40 °C	ASTM D 445	cSt	11.0	15.5	22.4
Viscosity @ 100 °C	ASTM D 445	cSt	2.85	3.56	4.67
Viscosity Index	ASTM D 2270	-	105	110	128
Pour Point	ASTM D 97	°C	-12	-21	-21
Flash Point (COC)	ASTM D 92	°C	174	190	204
Copper Strip Corrosion	ASTM D 130	-	1A	1A	1A

*The above figures are typical of blends with normal production tolerance and do not constitute a specification.*