

## Product Data Sheet

### Activa MTS

#### Description and Applications

**Saheli Activa MTS (Machine Tool and Slideway)** is series are superior quality lubricants specially developed to meet the requirements of modern high production machine tool slideways.

**Saheli Activa MTS** is formulated from high quality base stocks and select additives to provide excellent anti-wear and EP characteristics, low frictional properties, adhesiveness filterability and water separating capabilities.

**Saheli Activa MTS** offers superior protection against oil degradation and corrosion of machine tool surfaces even in presence of aqueous cutting fluids.

**Saheli Activa MTS** is specially developed to reduce the “stick-slip” problems with slow moving and heavily loaded machine tool’s slides and leads to improved surface finish and dimensional accuracy of workpieces.

#### Features and Benefits

- Low frictional properties reduce chatter and stick-slip of slides and ways and lead to improved surface finish and dimensional accuracy of workpieces.
- Excellent demulsibility provides ready separation from soluble cutting fluids and leads to prolonged coolant life and reduced cost of replacement and disposal.
- Superior metal wetting properties and adhesiveness resist wash-off from critical surfaces and protect from attack of high pH coolants.
- Good filterability provides easy circulation through filters and reduces stick-slip, chatter and wear.
- Excellent anti-wear performance provides high levels of protection for gears, bearings and slides
- Effective rust and corrosion inhibitors provide enhanced protection of machine tool slides even in presence of aqueous cutting fluids.
- Good thermal and oxidative stability keeps sliding surfaces clean and resists oil degradation thereby increasing its service life.

#### Applications

- Slides and ways of lathes, shapers, grinders and milling machines.
- **Saheli Activa MTS 32** and **68** are suitable for horizontal slides and ways on small to medium size machine tools.
- **Saheli Activa MTS 220** is recommended for large machines where way pressures are high and also for vertical and inclined slides and ways.

#### Specifications

- Cincinnati Machine P-47 (ISO VG 68), P-50 (ISO VG 220), P-53 (ISO VG 32)
- GM LS-2

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Test Parameters		Test Method	Typical Results		
<b>ISO VG</b>			<b>32</b>	<b>68</b>	<b>220</b>
Density @ 15°C gm/cm3		ASTM D1298	0.870	0.881	0.894
Viscosity Index		ASTM D2270	202	218	256
Viscosity @ 40°C (cSt)		ASTM D 445	31.2	67.6	215.5
Pour Point °C		ASTM D 97	-21	-15	-6
Flash Point (COC) °C		ASTM D 92	202	218	256
Rust Test		ASTM D 665A/B	Pass	Pass	Pass
Copper Corrosion		ASTM D 130	1b	1b	1b
Stick-Slip, Ratio		ASTM CM	0.79	0.75	0.72
Thermal Stability		CM-Procedure B	Pass	Pass	Pass
Acid Number, mgKOH/g		ASTM D 974	0.63	0.64	0.66
Timken EP OK load, lb		ASTM D 2782	40	45	60
Emulsion Test 30 Min. Max	@54°C	ASTM D 1401	Pass	Pass	-
	@82°C		-	-	Pass
Four Ball Wear, Scar 20KG, 1800rpm, 1hr, @54°C, mm		ASTM D 4172	0.37	0.29	0.26

The information contained in this data sheet are indicative and correspond to the date of publication of this document. The above data are based on laboratory tests. It is the reader's interest to ensure whether the most recent version of the data sheet. A safety data sheet is available on request by our sales consultant. For more information, please contact the sales department.