

# ULTRA TECH CSI 146

## Industrial Calcium Sulfonate Complex Grease

### Description

Ultra-Tech CSI 146 is a high-performance grease consisting of a combination of soap and molybdenum disulfide additive for industrial applications operating under excessive load, extreme temperatures, and water.

### Applications

It is recommended to be used in heavy industry such as iron-steel, cement, pulp and paper, mining, and low-RPM applications such as continuous casting line (CCM), ladle turrets, roller bearings, press and rolls and off-road equipment where the equipment operates under excessive load and temperature, and water cooling is performed.

### Benefits

- Creates a durable oil film thickness, protecting equipment running under pressure water.
- As it contains antioxidant and corrosion inhibitors, it protects the equipment at the highest level in aqueous environments while maintaining this protection for a long time with its water resistance.
- As it has a wide operating temperature range, it can be pumped to the furthest points at low temperatures, while carbonization clogs at high temperatures are prevented.
- Thanks to its calcium sulfonate complex structure developed with special gelling technology, it has high excessive pressure (EP) and anti-wear (AW) additive properties in its structure.
- The molybdenum disulfide additive works in harmony with the soap structure, thus providing effective protection against sudden (shock) loads, and in cases where the grease supply to the equipment is interrupted, it reduces the risk of failure by holding on to the roller bearings for a longer period of time.
- It creates a barrier against contaminants such as dust and dirt, thus maximizing equipment protection and extending the life of rollers and bearings.
- Due to its high dropping point, it offers a wide range of operating temperatures.

### Performance

DIN 51502: KPF 1,5 R-20, TS 11584

### Typical Specifications\*

Thickener Type		Calcium Sulfonate Complex
NLGI		1,5
Colour		Black
Base Oil Viscosity, 40 °C, mm <sup>2</sup> /s	ASTM D445	400
Timken OK, lb	ASTM D2509	65
Dropping Point, °C	ASTM D566	280
Welding Load, kg	ASTM D2596	800
Rust Test	ASTM D1743	Past
Oil Separation, % weight	IP-121	1
4 Ball Wear, 40 kg, 60 min.	IP-239	0.5
Water Resistance, % weight	ASTM D1264	5
Water Spray, % weight	ASTM D4049	30
Operating Temperature, °C max.		180**

\* Values shown may differ between productions.

\*\* Operating temperature can go up to 230 °C with a continuous supply of grease.

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