



CHAIN BAR OILS 100, 150, 220 V-TYPE

PRODUCT DESCRIPTION

Hi-Tec Chain Bar Oils 100, 150 and 220 V-Type are bio-degradable ISO 100, 150 and 220 grade chain and bar lubricants containing vegetable oil based esters, performance additives and a special anti-fling additive to help the oil adhere to the chain. They are intrinsically bio-degradable according to OECD 301B.

Hi-Tec Chain Bar Oils 100, 150 and 220 V-Type do not contain mineral lubricating oils - they are based on high quality vegetable oil esters, which in comparison with mineral oil based lubricants are more easily bio-degraded, less hazardous and more suitable for use in environmentally sensitive areas. They are much less likely to cause any harm to soil, waterways or other parts of the environment than mineral oil based lubricants.

Hi-Tec Chain Bar Oils 100, 150 and 220 V-Type display excellent viscosity - temperature characteristics due to the high inherent viscosity index of vegetable oil esters.

Compared with mineral oil based lubricants **Hi-Tec Chain Bar Oils 100, 150 and 220 V-Type** are:

- More easily bio-degradable
- Less hazardous
- More suitable for use in environmentally sensitive areas

Hi-Tec Chain Bar Oils 100, 150 and 220 V-Type were developed to meet and exceed the current requirements of the forestry and related industries. They may be used for hand-operated or automatic oilers and other applications involving chain driven equipment.

Hi-Tec Chain Bar Oils 100, 150 and 220 V-Type can be used in air driven down-hole hammers and are particularly suited to use in environmentally sensitive areas such as:

- National or State parks
- Near or on waterways
- Recreational areas
- Road, rail and tramways
- Local Government Maintenance Vehicles
- Water, Electricity, Telecommunication and Gas Service providers etc.

Hi-Tec suggests that the equipment manufacturers' recommendations for viscosity grade, performance requirements and general operating conditions should be checked prior to use. **Hi-Tec Chain Bar Oils 100, 150 and 220 V-Type** are fully miscible and compatible with mineral oils, therefore changing to **Hi-Tec Chain Bar Oils 100, 150 and 220 V-Type** is simple as no prior system flushing is required.

Hi-Tec Chain Bar Oils 100, 150 and 220 V-Type contain ester components which may be incompatible with certain elastomers used as seals, hoses or other components. Prior to full scale commercial use, it is recommended that compatibility with system components is determined by the user. For further advice, contact your local reseller or supplier.

Avoid contamination with water. Where possible, drying equipment should be used and water drained after any shutdown period.

Hi-Tec suggests that the equipment manufacturers' recommendations for grade, performance requirements and general operating conditions should be checked prior to use.

TYPICAL CHEMICAL AND PHYSICAL CHARACTERISTICS

Properties	Test Method	ISO 100	ISO 150	ISO 220
Item code (HI6-)				
Appearance	Visual	Clear yellow liquid	Clear yellow liquid	Clear yellow liquid
Odour		Bland fatty	Bland fatty	Bland fatty
Density (kg/L @ 15°C)	ASTM D4052	0.93	0.93	0.93
Kinematic Viscosity (mm ² /s @ 40°C)	ASTM D445	100	150	220
Kinematic Viscosity (mm ² /s @ 100°C)	ASTM D445	17.7	24.3	32
Viscosity Index	ASTM D2270	195	195	190
Pour Point (°C)	ASTM D97	-15	-15	-15
Flash Point Open Cup (°C)	ASTM D92	>150	>150	>150
Corrosiveness to Copper	ASTM D130	1a	1a	1a
Rust Preventing Characteristics	ASTM D665	Pass A & B	Pass A & B	Pass A & B
Sulphated Ash (%m/m)	ASTM D874	0.01	0.01	0.01
Water Content (%v/m)	ASTM D95	<0.1	<0.1	<0.1