



TECHNICAL DATA

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#190E PENETRO® GREEN H-1

Penetro® Green H-1 is a high performance, extreme pressure, anti-wear food grade penetrating oil that penetrates and lubricates all types of moving parts and chain applications that require an H-1 type oil where incidental contact with food may occur.

190E Penetro® Green H-1 meets the requirements for a USDA H-1 quality lubricant and the requirements of the United States Code of Federal Regulations 21CFR 178.3570, 178.3620(b), and 573.680 of the United States Food and Drug Administration's Regulations and is registered with and meets NSF International's guidelines for use as a lubricant with incidental contact (H1) in and around food processing areas.

Penetro® Green H-1 is blended from the finest quality, highly refined and purified non-toxic, non-staining technical white, U.S.P. grade oils and synthetic isoparaffinic hydrocarbons available. Combined with these food grade white oils and isoparaffinic hydrocarbons is a very specialized non-toxic food grade approved friction releasing additive package. These friction releasing additives deposit a long lasting solid lubricant film that not only greatly reduces friction and wear, but also when used on chains provides extreme pressure an anti-wear protection that can triple the life of the chains and sprockets.

Penetro® Green H-1 once applied to the surface of the mechanism will clean and provide that mechanism with a protective shield that rejects abrasive particles such as dirt and salt. This protective shield will also protect against moisture and inhibit the formation of rust and other corrosive buildup that damages working mechanisms.

Penetro® Green H-1 can be used to lubricate the following mechanisms on food processing plants, where incidental contact with food may occur:

- Valves
- Linkages
- Conveyors
- Chains
- Trolley Hooks
- Rollers
- Cutting Tools

Directions For Use

1. Shake or stir well before use.
2. When applying to heavily corroded parts, first scrape or wire brush. Allow a short time to penetrate.
3. Wipe away accumulated grit and grime that may appear as parts operate.

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TD-190E (Rev. 12/2009)

This product is acceptable as a lubricant with incidental food contact (H1) for use in and around food processing areas. Such compounds may be used on food processing equipment as a protective anti-rust film, as a release agent on gaskets or seals of tank closures, and as a lubricant for machine parts and equipment in locations in which there is a potential exposure of the lubricated part to food. The amount used should be the minimum required to accomplish the desired technical effect on the equipment. If used as an anti-rust film, the compound must be removed from the equipment surface by washing or wiping, as required to leave the surface effectively free of any substance which could be transferred to food being processed.

NSF Registration numbers for 190E Penetro® Green is 135435.

TYPICAL PROPERTIES

Specific Gravity	.8661
ISO Grade	15
Viscosity, SUS @ 40°C (ASTM D-445)	75.4-81.4
Viscosity, cSt @ 40° C (ASTM D-445)	14.5-16
Flash Point °F/°C (ASTM D-92)	239°/115°
Rust Test (ASTM D-665)	
Procedure A (Distilled Water)	Pass
Procedure B (Salt Water)	Pass
Four Ball Wear Test (ASTM D-4172) (40kg, 1200 RPM, 1hr @ 167°F)	
Scar Diameter, mm	0.84
Four Ball EP Test (ASTM D-2783)	
Weld Point, kg	315
Load Wear Index, Kg	56.77
Timken EP Test (ASTM D-2782)	
Ok Load, lb	65
Fail Load, lb	70
Dielectric Strength (ASTM D-877)	35 KV
NSF Registration Number	135435

Packaging: #190E Penetro® Green H-1 is available in cases of 12-16 ounce. pump spray bottles and 40lb pails