

METATRON™ 290 FG PENETROL

DESCRIPCIÓN:

Metatron™ 290FG Penetrol a premium quality high performance extreme pressure, anti-wear food grade penetrating oil that penetrates and lubricates all types of moving parts that have become difficult to operate due to increased friction due to wear, corrosion of the buildup of sludge and grime.

Metatron™ 290FG Penetrol 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 State's Food and Drug Administration's Regulations.

APPLICACIONES:

Metatron™ 290FG Penetrol can be used in the lubrication of all types valves, linkages, conveyors, chains, hoist chains, trolley hooks, rollers, cutting tools, air power tools and electrical power tools. Typically these applications can be found in the following industries

Meat and Poultry Processing Plants	Egg Processing Plants
Fish and Seafood Processing Plants	Breweries and Wineries
Soft Drink and Bottling Plants	Vegetable and Fruit Processors
Cheese and Cheese Product Producers	Bakeries
Snack Food Manufacturers	Pasta Manufacturers
Pet Food and Animal Feed Producers	Oil Mills and Seed Cake Processors
Pharmaceutical and Drug Manufacturers	Cosmetic Manufacturers
Food and Beverage Container Manufacturers	Paper and Paperboard Manufacturers
Water Well Drillers	Drinking and Potable Water Treatment Plants

COMPOSITION AND PERFORMANCE CHARACTERISTICS:

Metatron™ 290FG Penetrol is blended from the finest quality, highly refined, severely hydrofinished, purified, non-toxic, non-staining 100% paraffin base technical white, U.S.P. grade white oils available and synthetic isoparaffinic hydrocarbon's 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 and anti-wear protection that can triple the life of chains and sprockets.

PREVENTS THREAD STRIPPING AND BUST RUST:

When sprayed onto rusty bolts ordinary penetrating oils will not allow them to loosen properly without the possibility of stripping the bolt's threads. This is because rust is packed into threads of the bolts.

Unlike ordinary penetrating oils, which are solvent base, **Metatron™ 290FG Penetrol** coats the surfaces of the metal it is applied to with an oil film that cuts friction. The oil film that **Metatron™ 290FG Penetrol** lays down on the metal surfaces contains two different friction fighting lubricating solids that coat each rust particle and act like tiny ball bearings so the rust particles slide easily over each other without sticking to the threads. The result is busting of the rust from the threads so that the bolts release with fingertip ease.

TRIPLE BARRIER SHIELD AGAINST RUST

Ordinary penetrating oils contain only one type of rust and corrosion inhibitor. **Metatron™ 290FG Penetrol** contains three. These rust and corrosion inhibitors penetrate deep into the pores of the metal forming plating that provides a triple barrier shield against rust and corrosion. This triple barrier shield also forms a protective shield that rejects abrasive particles and seal out moisture.

TRIPLES THE LIFE OF HOIST CHAINS:

Ordinary penetrating oils fail the Timken Extreme Pressure Test at an OK Load of 1 to 2 pounds. The solid lubricants in **Metatron™ 290FG Penetrol** allow it to carry a 65 pound Timken OK Load . This translates over to a 100,000 PSI of protection on hoist load chains and sprockets, resulting in a tripling of the life of the hoist chains and sprockets even under heavy loads.

TRIPLES THE TIME BETWEEN APPLICATIONS:

Ordinary penetrating oils because they are solvent based and evaporate off quickly contain very little lubricating value. **Metatron™ 290FG Penetrol** being oil based coats the surfaces of the metals it is applied to with a light, clear lubricating film that will not wash off even under high moisture conditions and that lasts indefinitely.

DIRECTIONS FOR USE:

1. Shake well before use
2. When applying to heavily corroded parts, first scrape or wire brush. Allow a short time to penetrate.
3. Wipe away any accumulated dirt or grime that may appear as the part operates.
4. Do not spray onto any hot metal surface.

TYPICAL PROPERTIES:

Specific Gravity @ 15.5°C (60°F)	0.8861
ISO Grade	15
Viscosity @ 40°C, cSt (ASTM D-445)	14.5-16.5
Flash Point °C (°F) (ASTM D-92)	115° (239°)
Rust Test (ASTM D-665)	
Procedure A (Distilled Water)	Pass
Procedure B (Salt Water)	Pass
Four Ball Wear Test (ASTM D-4172) (40kg/1200rpm/1hour/75°C(167°F))	
Scar diameter, mm.	0.84
Four Ball E.P. Test (ASTM D-2783)	
Weld Point, kgs.	315
Load Wear Index, kgs.	56.77
Timken E.P. Test (ASTM D-2782)	
OK Load, lbs.	65 lbs.
Dielectric Strength (ASTM D-877)	35 KV