



*The Ultimate Lubricant*

# 648

## DESCRIPTION:

Omega 648 "Smokeless" Hi-Temp Chain Lubricant is a specially formulated high-technology blend of extremely stable, low-evaporation synthetic fluids.

The result of extensive research and on-site testing, Omega 648 has been engineered specifically to meet the ever-increasing demands of modern chain systems exposed to elevated temperatures and high cleanliness production requirements.

## PERFORMANCE CHARACTERISTICS:

Omega 648 is a high-quality, high-performance chain lubricant. It features an unsurpassed "stay-in-place" property to ensure consistent, long-lasting, high-adhesion, "wet" lubrication to chains and conveyors subjected to elevated temperatures for extended periods of time. Omega 648 continuously and consistently protects such chains and conveyors with a reliable film of synthetic fluid.

A clear yellow, clean chain lubricant, Omega 648 contains no silicones or solid lubricants. It is non-carbonizing in use at elevated temperatures. Omega 648 will not form hard lacquers or carbon residues that are difficult to remove or, at worst, can build up and block oil-ways to induce rapid and costly wear in the breakdown process.

Omega 648's "smokeless" fully synthetic formulation also ensures low evaporation loss even when used at elevated temperatures so that the need for continuous lubrication is eliminated.

## HIGH-TECHNOLOGY ADDITIVES:

The result of superior research and engineering, Omega 648 contains high-technology additives to ensure extreme-pressure / anti-wear capabilities at elevated temperatures over extended periods of time.

The very stable base fluid and effective additives package of Omega 648 extends the working life of chains and tracks with a protective film that clings tenaciously to applied metal surfaces and remains stubbornly in place.

Omega 648 demonstrates a very low order of toxicity. Its special formulation also provides an extremely high level of corrosion protection.

## MAJOR APPLICATIONS:

Omega 648 "Smokeless" Hi-Temp Chain Lubricant is especially suited for applications that require a clean production environment, such as dyeing and finishing in the textile industry and paint work curing in the automotive and electronics industry.

Omega 648 has been developed for use on various types of chains, including tenter frames, kiln chains, food baking oven chains and metal heat treatment oven chains.

Omega 648 is also ideal for use in high-temperature tunnels, dryers, shrink wrap machines, textile auxiliaries, steel, plastic, printing and woodworking processes.

## METHODS OF APPLICATION:

Omega 648 can be applied by brush, drip, oil can or automatic lubricator.

## TYPICAL DATA:

TEST	ASTM TEST METHOD	TEST RESULT
ISO Viscosity Grade	D-2422	150
Appearance	Visual	Clear Yellow
Density, Kg/L @ 15°C	D-1298	0.975
Viscosity, cSt @ 40°C	D-445	151
Viscosity, cSt @ 100°C	D-445	17
Viscosity Index	D-2270	120
Flash Point, COC, °C	D-92	>300
Pour Point, °C	D-97	-32
Evaporation Loss, % wt. (6.5 hrs@204°C)	D-972	1.2
Rust Test		
Distilled Water, 48 hrs.	D-665-A	Pass
Salt Water, 48 hrs.	D-665-B	Pass

The characteristics given above are typical of current production only and slight batch to batch variations should be expected.