

# sonneborn™

A HOLLYFRONTIER BRAND

# CORROSION PROTECTION

## INTRODUCTION

**SINCE 1903**, the name Sonneborn, a Hollyfrontier brand, has been synonymous with the world's highest quality refined hydrocarbons. Our goal is to provide customers with premium products, superior technical capabilities, and dependable service so they receive the very best value in the industry.

Sonneborn produces a range of oxidized petrolatums (Oxpets) that are used primarily for rust prevention and

anti-corrosion. These chemically oxidized petrolatums are mixtures of long-chained, branched and cyclic hydrocarbons, plus their derivatives such as organic acids, oxi-acids and esters. The acids present in our Oxpets can be neutralized with bivalent metal oxides, yielding end-products with a high average equivalent weight and wax-like nature, which have excellent water-resistant properties and corrosion protection.



# APPLICATION

Neutralization is best achieved with calcium hydroxide or zinc oxide in a white spirit dilution. This white spirit solution of neutralized products provides improved anti-corrosion properties through the addition of a high average equivalent weight petroleum sulfonate.

To obtain special characteristics in the end-product it is also possible to add Petrolatum 640/20 or Tech Pet F. The end-product may be sprayed or brushed on to the metal surface to be protected.

## TYPICAL PROPERTIES OF SONNEBORN OXPET PRODUCTS

PROPERTY*	Method	WH-1	WH-6	LA 1531/20
Acid number, mg KOH/G	ASTM D 664	48-53	42-47	17-22
Saponification number, mg KOH/g	DIN 51559	100	110	47
Congealing Point, °C	ASTM D 938	56	54	38
Ash, % by weight	ASTM D 482	max 0.5	max 0.5	max 0.5
Flash Point, COC, °C	ASTM D 92	min 150	min 150	min 150
Colour, diluted	ASTM D 1500	8	8	8

\*Typical Values

## PETROLATUM-TECHNICAL PRODUCTS

PRODUCT	Drop Melting Point, °C ASTM D 127	Congealing Point, °C ASTM D 938	Cone Penetration at 25°C,	Colour
Petrolatum 640/20	35-45	35-43	175-195	brown
Tech Pet F	57-66		160-190	brown