



Quench Oil Accelerator

DuBois

Accelerator Additive for DuBois Quenching Oils

DESCRIPTION:

QUENCH OIL ACCELERATOR is a blend of mineral oils containing a high percentage of the activating ingredients used in AAA **QUENCH OIL** and other DuBois Quench Oils. It is designed to "fortify" these oils in those situations where unusually dense loads with high surface area are quenched, which has the effect of prematurely reducing the quenching speed of the oil. **QUENCH OIL ACCELERATOR** makes it possible to increase the quenching rate of the oil and renew its oxidation resistance at a relatively low cost since the used oil need not be discarded.

QUENCH OIL ACCELERATOR mixes perfectly with our quenching oils. It will not stratify or settle out. The viscosity, flash point, and fire point of used oil are not changed by the addition of **QUENCH OIL ACCELERATOR**. **QUENCH OIL ACCELERATOR** provides the means, at reasonable cost, of obtaining the maximum oil quench hardness from both low and high alloy steels.

KEY PROPERTIES:

- High flash point.
- Excellent thermal stability and resistance to oxidation.

APPLICATION:

The quenching speed of DuBois quenching oils should be determined by cooling curve testing per ASTM D6200 or ISO 9950. When the cooling curve indicates the oil has slowed down, normally a 5% addition of **QUENCH OIL ACCELERATOR** by volume will restore the quench oil to its original quenching rate. Oils which have been overheated or contaminated will not be made "like new" by adding **QUENCH OIL ACCELERATOR**, but quenching rates will be increased. At the same time, the effects of contamination and overheating are lessened by dilution.

QUENCH OIL ACCELERATOR should be added to the quench tank under agitation to ensure uniform mixing with the quench oil.

TECHNICAL DATA:

Appearance: Amber, viscous oil.
Viscosity at 40 °C: > 1000 cSt (typical)

BATH PARAMETERS:

After **QUENCH OIL ACCELERATOR** is added to a quench tank, the quench oil should be operated as follows:

Temperature: Per quench oil TDS
Velocity: > 100 FPM (0.5 MPS)
Time: As required for appropriate metallurgical transformation

EQUIPMENT:

Electrical immersion heaters used to raise the temperature of the oil should not exceed 10.0 watts per square inch, in a well agitated environment.

SAFE HANDLING & STORAGE CONDITIONS:

Before handling, the Safety Data Sheet (SDS) should be read and understood by all personnel in contact with this product. General indoor storage at room temperature is recommended.

DISPOSAL:

Any disposal of this product should be in compliance with all federal, state, and local regulations. Please refer to the Safety Data Sheet (SDS) for instructions regarding proper disposal of this product.

PRECAUTIONS:

KEEP OUT OF THE REACH OF CHILDREN.

Please refer to the label and Safety Data Sheet (SDS) for all warnings, recommendations for safety equipment, and other regulatory information. Copies of the SDS can be ordered by calling 800-438-2647.



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