



# TENAXOL QUENCHANTS

## POLYMER | OIL

## POLYMER QUENCHANTS

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### **Dow Ucon Quenchant B**

1423600000

Furnace applications for steel external quench systems where medium speed oils are used. Direct forge quenching operations.

### **Dow Ucon Quenchant E**

1422060000

Induction and flame hardening applications of high carbon and alloy steels. Furnace applications for steel external quench systems - where medium speed oils would normally be used. Direct forge quenching operations.

### **Dow Ucon Quenchant E-NN**

1422500000

Induction and flame hardening applications of high carbon and alloy steels. Analogous quenching performance is obtained with UCON Quenchant E and E-NN. Furnace applications for steel external quench systems where medium speed oils would normally be used. Direct forge quenching operations.

### **Tenaxol Quench Ultra 1500**

6811000000

A water solution of organic polymer, corrosion in-hibitors, biocide, and anti-foaming agents that is a fast polymer quenchant. Has a normal solubility (thus has less carry out on the parts and less consumption.) The polymer is non-tacky and has a greater washability compared to other synthetic quenchants.

### **Tenaxol Quench Ultra 2500**

6884300000

A water solution of higher molecular weight polymer quenchant. It is generally used for higher alloy steels and all types of metals where the control of distortion is of prime importance. Being a more viscous polymer it is ideal for replacing medium speed quench oils. It is ideal for intricate component, carbon/alloy steel, cast steel, forged steel, and cast iron.

## OIL QUENCHANTS

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### **Alphaquench 5300**

6819000000

The Alphaquench 5300 is used in all applications where the highest cooling rates must be applied in order to achieve maximum hardness of the quenched parts. This oil can be particularly effective when parts are tightly packed in baskets and optimal circulation is not possible. Batch and continuous furnace operations gas fired, carburizing, carbonitriding, and neutral atmosphere with internal or external quench tanks.



# QUENCHANT PRODUCTS

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Dow UCON quenchants are sold and serviced exclusively by Fluid-Dynamics in North America and worldwide to commercial and captive heat treaters. Owing to their unique chemistry and performance properties, polymer quenchants are the safe alternative to oil quenching and they yield a better end product than water and all other quenching techniques for the majority of ferrous and non-ferrous materials. Fluid-Dynamics is the leader in the formulation and supply of various lubricants, cleaning agents, cutting fluids, and other solutions for diverse industrial applications.

## POLYMER QUENCHANTS

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**Dow UCON Quenchant A\***  
1422070000

Induction and flame hardening applications of medium carbon and low to medium carbon alloy steels. Furnace applications for steel external quench systems where water and fast speed oils would normally be used. UCON Quenchant A is AMS 3025 approved for the aerospace industry.

**Dow UCON Quenchant A-NN\***  
1422080000

Induction and flame hardening applications of medium carbon and low to medium carbon alloy steels. Corrosion inhibitor is a non-nitrite. Analogous quenching performance is obtained with UCON Quenchant A and A-NN. Furnace applications for steel external quench systems where water and fast speed oils would normally be used.

**Dow UCON Quenchant RL**  
1422090000

Induction and flame hardening applications of high carbon and alloy steels. Furnace applications for steel external quench systems. Direct forge quenching operations.

**Dow UCON Quenchant RL-NN**  
1422800000

Induction and flame hardening applications of high carbon and alloy steels. Corrosion inhibitor is a non-nitrite. Analogous quenching performance is obtained with UCON Quenchant RL and RL-NN. Furnace applications for steel external quench systems. Direct forge quenching operations.

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\*DOW UCON Products are approved by the following OEM's for their Heat-Treating applications.  
Boeing | Airbus | Pratt & Whitney



## **Strategic Marketing and Business Development**

Fluid-Dynamics is committed to the pursuit of developing innovative products for investment in manufacturing markets and to meet our customers' changing needs. This pursuit is conducted in a culture of continuous improvement with respect to quality, safety and the environment.

Fluid-Dynamics maintains a fully staffed quality control laboratory that is monitored rigorously to ensure our quality and technical support consistently deliver exemplary results that meet our customers' expectations.

## **Quality Policy**

Fluid-Dynamics will provide products and services that consistently meet or exceed the expectations of our customers. We will manage and continually improve our business processes to meet our quality objectives.

## **Our Mission**

Our solutions keep the world moving with:

- Industry Leading Technologies
- Best in Class Manufacturing
- State of the Art Packaging

## **Our Vision**

To be the leader at combining market insights with chemistry and application capabilities to deliver valuable solutions to customers and their end users.

## **ISO 9001**

Fluid-Dynamics offers a wide range of products and services designed for original equipment manufacturers, including automotive, agricultural, earth moving mining, aerospace, and steel industries.

Innovation and services are the hallmarks of Fluid-Dynamics approach to driving value and uncompromising customer satisfaction.