

# THERMEX WW 501

Water miscible synthetic hot forging lubricant (graphite free)

## DESCRIPTION

THERMEX WW 501 is a water based synthetic solution, free from graphite and mineral oils that forms a clear solution in water which forms a white lubricating film on the die.

## APPLICATIONS

THERMEX WW 501 is used for forging of carbon steel alloys to forge parts of all degrees of difficulty

## RECOMMENDATION FOR USE

The concentration of THERMEX WW 501 is adjusted depending on the degree of difficulty and amount of deformation.

Simple forgings : 3-10%

Moderate forgings : 5 - 10 %

Severe forgings : 10 - 25 %

## TYPICAL PHYSICAL PROPERTIES

Appearance	Clear liquid	
Specific gravity @ 20°C	1.12	ASTM D 1298
pH	8.3	DIN 51396
Kinematic Viscosity 20°C mm <sup>2</sup> /s	73	IP 71/DIN 51562

## BENEFITS

- Reduces costs and increases productivity - good forming properties, good release, reduces wear on the dies, low foaming, clean surfaces on the metal surface after forging reduce subsequent cleaning operations. Reduces the heat transmission between the die block and billet.
- Easy to use - easy to mix with water and control with a refractometer, forms a stable solution that uniformly wets the die surface.
- Operator and Environmentally friendly - graphite and oil free for a clean working environment. Ammonia free for a pleasant working environment.

## ADDITIONAL PRODUCT DATA

It is recommended that dilutions are made with suitable mixing equipment. If manually mixing, add water slowly to the product while mixing for best results.

## RELATED PRODUCTS

Houghton specialises in products and services for Heat Treatment, Machining and Grinding, Cleaning, and Fire Resistant Hydraulic Fluids and Industrial Lubricants. For more information, please contact your local Houghton representative.

## STORAGE

Please refer to section 7 of Safety Data Sheets for handling and storage information, including product shelf life. Product should be stored under cover in clean, dry conditions and protected from frost. Recommended storage temperature is usually between 5°C and 40°C unless otherwise specified. Use stock in delivery rotation.

## HEALTH AND SAFETY

Safety data sheets are available in accordance with Regulation (EC) No 1907/2006 Annex II where a substance or preparation meets the criteria in accordance with Directives 67/548/EEC or 1999/45/EC.

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