
Technical Information

RENITE WL-10

WARM & HOT FORMING & DRAWING LUBRICANT

Renite WL-10 is a water and synthetic oil-based lubricant for use with warm or hot forging, extrusion, drawing, punching, or stamping applications. Specially designed for improved lubrication at warm and high temperatures, Renite WL-10 provides good smooth release and performance with the above applications at a wide variety of temperatures.

DESCRIPTION:

Composition:	Blend of water, esters, and lubrication enhancing additives.
Graphite-Free:	No Graphite is Added to Renite WL-10
Appearance:	Clear but Light Amber Liquid.
Specific Gravity:	circa 1.1 (g/mL)
pH:	circa 6.5
Flash Point:	None. Above 212°F (100°C) minimum if the water in the product is driven off, otherwise this product is not flammable.
Non-Carcinogenic:	Renite WL-10 is non-carcinogenic

USES:

Renite WL-10 provides good lubrication in the forming of a variety of metals under a relatively wide range of temperatures. Extreme pressure (EP) lubrication additives, which also function well at intermediate and high temperatures, form microscopic thin coating over the die, punches, mandrel, and other tooling surfaces. This thin coating smooths over surface defects providing lubrication for improved metal flow and release. The synthetic oil adds to the lubrication, and gives needed bulk lubrication, particularly at lower temperatures and pressures where the formation of the thin film may develop less rapidly. Renite WL-10 should provide efficient lubrication from cold forming temperatures up to 800°F and beyond.

Where cooling of dies and tooling is required, or for applications with less demanding lubrication requirements, Renite WL-10 may be diluted with water. Undiluted, Renite WL-10 is as stable as ordinary machine oils and may be stored and handled as such. Renite WL-10 may be used either diluted with water, or undiluted.

APPLICATION:

The means of application depends upon the job. The lubricant may be squirted or sprayed on mandrels or other tools. For dilutions of Renite WL-10, recommended dilution ratios range from 2:1 up to 5:1 (water : WL-10). A little mild agitation may be helpful in the case of the diluted product.