

## Oemetal 600 Series

Neat machining oils based on Hydro-Cracking technology

### High Flash Point

Better flash point to viscosity ratio than conventional mineral oils

### Low Noack Index

Lower evaporation than conventional mineral oil based products

### Great Durability

With increased purity of the base oil comes greater stability

### Low Foaming

Even with high pressure the air release characteristics are good

### Compatibility

Available in both standard and yellow metal compatible versions

### Versatility

With viscosities ranging from 10 to 22 cSt most applications are covered

### Chlorine Free

Creating a safer work environment

### Cost Effective

More durability and longer lasting oils means more cost savings

#### Oemeta Inc. - USA

5655 West 610 South  
Salt Lake City, UT 84104  
(801) 953-0134 - [usaorders@oemeta.com](mailto:usaorders@oemeta.com)  
[us.oemeta.com](http://us.oemeta.com)

#### Oemeta North America - Canada

265 Ingersoll St, Unit B  
Ingersoll, Ontario N5C 3J7  
(519) 485-1800 - [cdnorders@oemeta.com](mailto:cdnorders@oemeta.com)  
[us.oemeta.com](http://us.oemeta.com)

## Description

The 600 series of cutting oils offer advantages over normal mineral oils due to the hydro-cracking process that is used to make them.

A conventional mineral oil base is a blend of lower and higher viscosities to get to an average desired viscosity. This blending leaves the oil limited in its characteristics such as flash points and evaporation index because the lower viscosity oil will be more volatile than the higher one.

The flash point is obviously a huge issue when machining with straight oils. If the flash point is lower then there is a greater safety risk to the operator and the equipment while machining.

The evaporation index is a more subtle problem but it makes for harder quality control. As the lower viscosity oil evaporates away then the oil that is in the machine gets thicker. As the oil changes it effects its characteristics as well. It will start to increase the carry off rate and it will change its machining capabilities. The process that you start with when you have new oil

will not be the same process that you have with older oil in this case. Both of these things cost your company money.

How does hydro-cracking help with these problems?

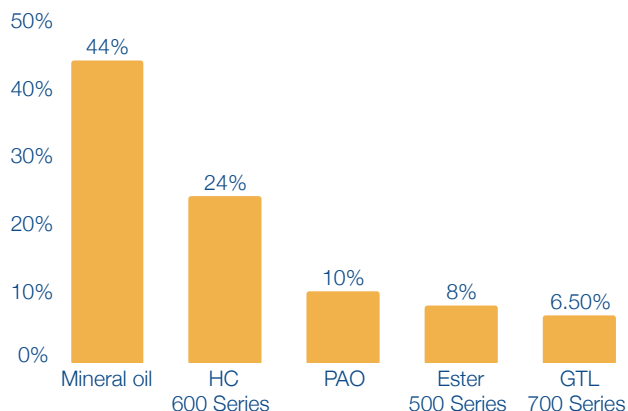
The hydro-cracking process that the 600 series oils use takes the oil refining process to another level. It eliminates the blending process and creates an oil that is effectively the desired viscosity to begin with. This means that there is no lower viscosity oils that lower the flash point or evaporate off. Meaning the oil has a much higher flash point to viscosity ratio and will be more consistant over its life. This creates a safer work environment and a more reliable machining process.

**Oemeta - metalworking coolants from specialists for specialists.**

## Product Characteristics

	Products		
	600 HC / Y	620 HC / Y	640 AS
Viscosity (cSt)	10	22	9
Flash Point °F	345 / 383	419 / 452	338
Flash Point °C	174 / 195	215 / 233	170
Chlorine (Y/N)	No	No	No
EP Additives	Ester+Sulfur (HC) / Ester Only (Y)	Ester+Sulfur (HC) / Ester Only (Y)	Ester+Sulfur

## Evaporation



## Flash Point

