

Cutting edge technology

We have a proven track record of generating cost savings for manufacturers in a variety of industries, including automotive, aerospace and general metalworking. For most manufacturers, cutting fluids are a relatively small component of the overall cost of production, but can have a dramatic impact on many other cost considerations. Our experts analyse the costs affected by the cutting fluid, seeking to provide the lowest total applied cost. Tool life, surface finish and waste disposal are some of the most common areas where major cost reductions can be obtained by using Varol Metalworking Soluble fluids.

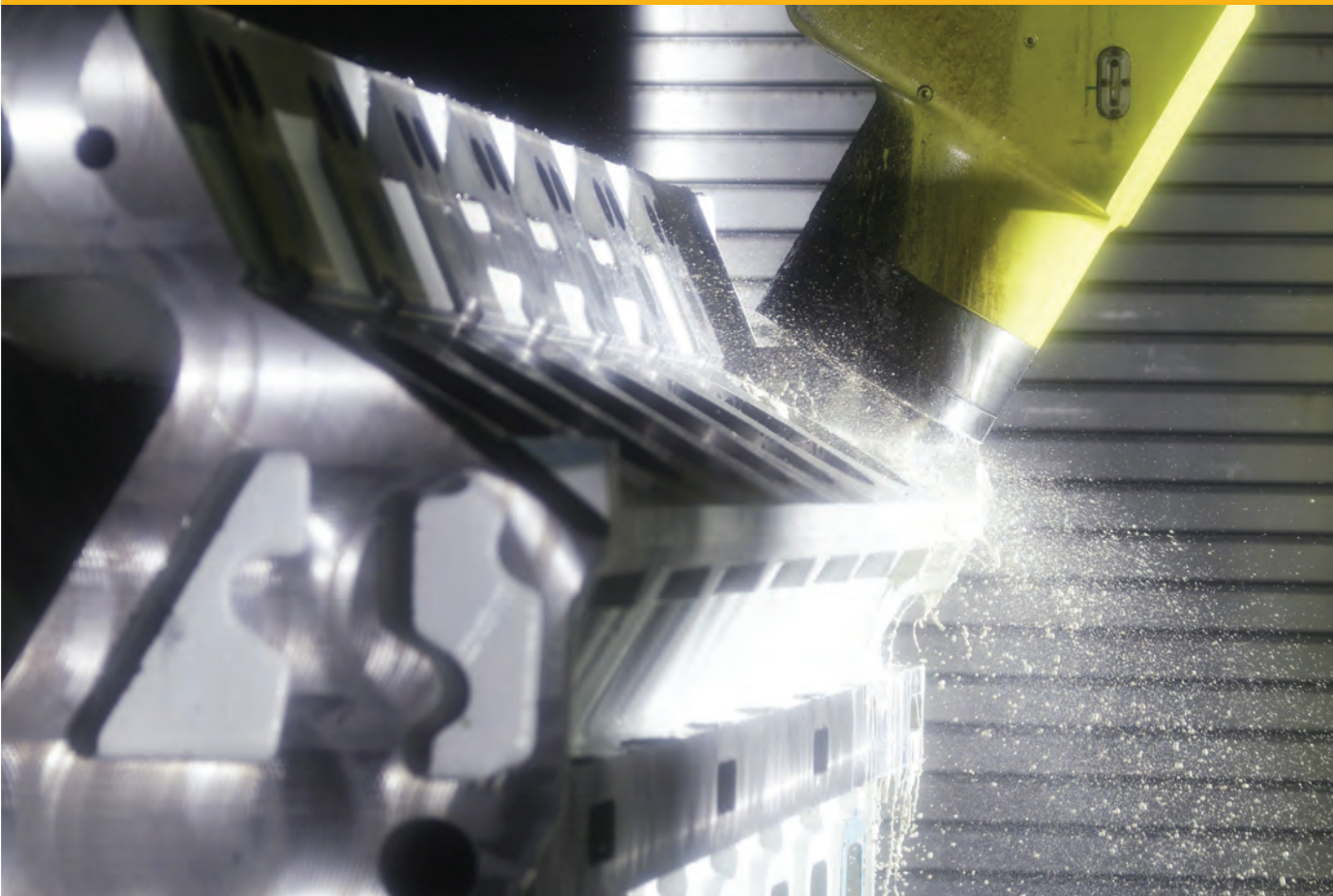
Health, safety and environmental solutions

Respect for the environment, together with operator health and safety, are paramount in all that we do. Our metal removal lubricants offer solutions to many HSE problems:

- Bioresistant coolants to minimise biological growth, extend sump life and reduce the use of biocides
- Chlorine-free lubricants for reduced disposal costs
- Boron amine-free lubricants for improved operator acceptability
- Excellent corrosion protection
- Recycling suitability



VAROL
LUBRICANTS





Water Soluble Fluids

Varcool Soluble Fluids

We offer a range of soluble oils ranging from general purpose to heavy duty formulations, suitable for a wide variety of machining and grinding operations.

- Easy to maintain
- Resistant to biological growth
- Chlorine-free fluids for reduced disposal costs
- Outstanding in-process corrosion protection
- Recyclable

Varcool Semi-Synthetic Fluids

Micro-emulsions consist of small oil droplets, tightly emulsified in an aqueous solution. We have been refining this technology for many years and have developed a versatile series of products.

- Suitable for most alloys and most types of metal removal operations
- Resistant to biological growth
- Chlorine-free lubricants for reduced disposal costs
- Boron amine-free lubricants for excellent operator acceptance
- Clean working environment
- Recyclable

Vargrind Synthetics

Synthetic machining fluids are completely oil-free and provide numerous benefits.

- Clean working environment
- Maximum rejection of tramp oil for extended sump life
- Low foam
- Recyclable
- Maximum cooling properties



Varol Soluble Metalworking Fluids

Boron Amine-Free – General Purpose

Varcool 1010	High oil chlorine free soluble oil, multi metal compatible suitable for ferrous and non-ferrous metals.
Varcool 1015	High oil chlorine free soluble oil, multi metal compatible with added passivation for heavy duty machining of brass and copper alloys.
Varcool 1020	High oil chlorine free soluble oil, multi metal compatible with added passivation and ester for heavy duty machining and rolling of brass and copper alloys.
Varcool 1050	High oil soluble oil containing EP additives, suitable for ferrous and non-ferrous metals, developed for heavy duty machining of stainless and mild steels.

High Performance

Varcool 3010	High performance heavy duty, multi metal compatible, bio-resistant, non-staining cutting fluid based on chemical reactive extreme pressure additives for more difficult applications.
Varcool 3020	Advanced high performance non-staining cutting fluid containing HP esters for use on aerospace alloys including, aluminium alloys, titanium and exotic alloys. Performance excels in very hard water conditions.
Varcool 3030/3035	Excellent heavy duty chlorine free cutting fluid containing HP esters and lubricity additives for use on more difficult materials including aerospace alloys such as aluminium, titanium as well as stainless and forged steels. Formulations cover a wide range of water qualities from very soft to hard.
Varcool 3050	Very heavy duty cutting fluid, multi metal compatible for use on a wide range of automotive and aerospace alloys and applications. Super high performance in extreme pressure systems and very soft - hard water qualities.

Varol Semi Synthetic Metalworking Fluids

Micro Emulsion

Varcool 2110	Low oil containing micro emulsion for multi-functional machining and grinding applications and in particular cast and sintered irons where clean running and low oil drag out is required.
Varcool 2150	High performance micro emulsion containing HP esters and lubricity additives for multi-functional machining and grinding applications. Truly multi metal compatible, making this fluid the ideal choice as a rationalisation grade for the majority of machine shops where a wide range of materials are in use.
Varcool 2250	Very heavy duty micro emulsion based on HP and EP additives to provide excellent machining and grinding performance across a wide range of materials and applications.
Varcool 3053	Advanced micro emulsion, multi metal compatible for heavy duty extreme high pressure systems across a wide range of materials, applications and water qualities. The formulation is very clean running and biocide free, delivering a high resistance to bacterial and fungal attack.

Full Synthetic Metalworking Fluids

Vargrind 4000	Full synthetic, dye free, grinding fluid that forms a true solution when diluted. Provides superior cooling and flushing characteristics keeping grinding wheels open and free from debris in the machining zone.
Vargrind 4010	Translucent solution contains fluorescent dye. Superior cooling and flushing characteristics keeping grinding wheels open for improved surface finish. Exhibits excellent bio-stability and anti-fungal properties.