

**MOTUL** **TECH**

**METALWORKING**

**FLUIDS**





# MOTUL

## WHO IS MOTUL?

Universally recognised for more than 160 years for the quality of its products, its capacity for innovation, and its involvement in the field of competition, Motul is truly acknowledged as the specialist in synthetic lubricants.

Passion is what unites lovers of engineering with their machinery, the same passion that fuels Motul's drive for innovation.

Constantly striving to develop the next step in performance, Motul demands the same commitment to excellence from its suppliers as from its own team, with the aim of delivering the highest level of products and services to its clients.

From Pennsylvania's first oil rig to the brand's latest laboratory, the unfolding desire for improvement fuels the Company day-by-day in its quest to deliver innovative solutions.

The connection between Motul and its community delivers ingenious ideas and enables them together to achieve the unachievable, to push performance beyond the normal boundaries, and to deliver the unexpected over the long term, time after time.

Supporting its customer's projects, and fighting side-by-side to deliver cost effectiveness inextricably linked to performance is the way that Motul commits to its business partners in a way in which no one else would.

Thanks to this commitment, Motul is now the only choice of many of the most renowned workshops in over 100 countries.







# WHY CHOOSE MOTULTECH FOR METALWORKING?

Each machining application is unique, each of our clients has specific needs.

The MotulTech offer encompasses a wide range of neat & soluble machining fluids. This range is the result of a long collaboration process with specialists in machining.

By listening to your needs, our experts develop products that reconcile the search for performance and productivity with respect for users and the environment. Conceived to optimize the performance/consumption ratio, these products make it possible to obtain high quality parts at the highest production rates and optimised cost.

The ethos behind formulation is to meet the most stringent requirements for hygiene & safety whilst retaining ease of maintenance.

MotulTech offers you an extensive set of products and services, including soluble fluids, neat oils and Minimum Quantity Lubrication products. The solution to your quality, productivity or technical problem, will be found in our range





**MOTUL**

**TECH**

**GENIOUS BLEND**

**AUTHENTIC**



# NEAT OILS

The MotulTech range of neat oils covers a wide range of applications from standard and severe machining to superfinishing operations. Each product has been developed to answer specific needs and ensure optimal technical performances depending on the operation, its severity and material.

# FO



## SUPRACUT SERIES - Premium cutting fluids

SUPRACUT series have been specially developed for general machining operations, from easy to difficult machining, on ferrous and non-ferrous metals. It offers a high-performance level thanks to its extreme pressure and anti-wear properties.

### SUPRACUT G

SUPRACUT G is a chlorine and sulphur-free range of neat cutting oils designed for standard machining operations on ferrous and non-ferrous metals. It is recommended and widely used in the automotive and mechanical industries for bar-turning operations on brass and mild steels. 30 & 45 grades can be also used as hydraulic oils for the machines.

	Viscosity at 40 °C (mm <sup>2</sup> /s)	Flash point (°C)	Steel	High alloy steel	Aluminium alloy	Copper alloy
<b>SUPRACUT 15 G</b>	15	165	•	-	•	•
<b>SUPRACUT 20 G</b>	22	204	•	-	•	•
<b>SUPRACUT 30 G</b>	30	206	•	-	•	•
<b>SUPRACUT 45 G</b>	45	230	•	-	•	•

• recommended / ◯ check for compatibility and operation before use / - not recommended

#### ADVANTAGES



High flash point



Very good stability



Not foaming



Optimised anti-wear properties



Compatible with ferrous & non-ferrous metals

### SUPRACUT X

SUPRACUT X is a chlorine and sulphur-free range of neat cutting oils specially designed for the machining of ferrous metals with bad machinability. It is recommended for machining of medium-hard to hard steel and titanium on automatic and semi-automatic turning machines, with single or multiple broaches, without risks of seizing the spindle mechanism. Suitable for gear hobbing.

	Viscosity at 40 °C (mm <sup>2</sup> /s)	Flash point (°C)	Steel	High alloy steel	Aluminium alloy	Copper alloy
<b>SUPRACUT 20 X</b>	20	194	•	•	-	-

• recommended / ◯ check for compatibility and operation before use / - not recommended

#### ADVANTAGES



High flash point



Very good stability



Reinforced lubricating power



High Extreme Pressure properties

## SUPRACUT EVO SERIES - Advanced cutting fluids with performance beyond standards

SUPRACUT EVO series are formulated with highly refined base stocks with high viscosity index (HVI) and new additives generation. It can be used for most applications on ferrous and non-ferrous metals and is especially recommended for high speed machining and high-pressure flows thanks to its low mist ability. It improves operators experience and production efficiency.

### ADVANTAGES



High flash point



Very good stability



Low mist & evaporation



Various applications



High viscosity index



High anti-wear properties



High Extreme Pressure capacity



Reinforced lubricating power

### SUPRACUT EVO G

SUPRACUT EVO G is a chlorine and sulphur-free range of neat cutting oils designed for standard machining operations on ferrous and non-ferrous metals. It is particularly suitable for machining operations on aluminium, brass, copper and all types of steels.

	Viscosity at 40 °C (mm <sup>2</sup> /s)	Flash point (°C)	Steel	High alloy steel	Aluminium alloy	Copper alloy
<b>SUPRACUT EVO 15 G</b>	15	192	•	-	•	•
<b>SUPRACUT EVO 30 G</b>	30	230	•	-	•	•

• recommended / ◦ check for compatibility and operation before use / - not recommended

### SUPRACUT EVO M

SUPRACUT EVO M is an extreme-pressure, chlorine and sulphur-free range of neat cutting oils designed for general machining operations of all types of metals and in all types of machines. It is suitable for all standard turning operations of hard materials (steel, titanium and inconel), non-ferrous metals and mild steels. 30 & 45 grades can be also used as hydraulic oils for the machines.

	Viscosity at 40 °C (mm <sup>2</sup> /s)	Flash point (°C)	Steel	High alloy steel	Aluminium alloy	Copper alloy
<b>SUPRACUT EVO 10 M</b>	10	172	•	◦	•	•
<b>SUPRACUT EVO 15 M</b>	15	218	•	◦	•	•
<b>SUPRACUT EVO 20 M</b>	22	216	•	◦	•	•
<b>SUPRACUT EVO 30 M</b>	30	222	•	◦	•	•
<b>SUPRACUT EVO 45 M</b>	45	262	•	◦	•	•

• recommended / ◦ check for compatibility and operation before use / - not recommended



## SUPRACUT EVO SERIES - Advanced cutting fluids with performance beyond standards

### SUPRACUT EVO X

SUPRACUT EVO X is a chlorine and sulphur-free range of neat cutting oils designed for all hard machining on non-ferrous and ferrous metals. It is best suited for machining stainless steel, titanium, inconel and hard metals, especially for drilling, deep reaming, boring and tapping. Suitable for gear hobbing and deep-hole drilling. 30 & 45 grades can be also used as hydraulic oils for the machines.

	Viscosity at 40 °C (mm <sup>2</sup> /s)	Flash point (C°)	Steel	High alloy steel	Aluminium alloy	Copper alloy
SUPRACUT EVO 10 X	10	176	•	•	○	○
SUPRACUT EVO 20 X	22	200	•	•	○	○
SUPRACUT EVO 30 X	30	204	•	•	○	○
SUPRACUT EVO 45 X	45	222	•	•	○	○

• recommended / ○ check for compatibility and operation before use / - not recommended





## SUPRACUT INO SERIES - Innovative cutting fluids to meet future needs and standards

SUPRACUT INO series are formulated with innovative base stocks and additives to reduce the impact on the environment and diminish the risks for the operators without sacrificing the performances.

### SUPRACUT INO GG

SUPRACUT INO GG is a premium chlorine and sulphur-free range of neat cutting oils designed for standard machining operations on ferrous and non-ferrous metals. It is particularly suitable for machining operations on aluminium, brass, copper and all types of steels.

	Viscosity at 40 °C (mm²/s)	Flash point (C°)	Steel	High alloy steel	Aluminium alloy	Copper alloy
<b>SUPRACUT INO 20 GG</b>	22	232	•	-	•	•

• recommended / ◯ check for compatibility and operation before use / - not recommended

#### ADVANTAGES

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10

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High flash point



Low mist & evaporation



Various applications



High viscosity index



High anti-wear properties



Compatible with ferrous & non-ferrous metals

### SUPRACUT INO MG

SUPRACUT INO MG is a premium chlorine and sulphur-free range of neat cutting oils designed for general machining operations of all types of metals and in all types of machines. It is adapted to all standard turning operations of hard materials (steel, titanium and inconel), non-ferrous metals and mild steels. Products are free from organo-chlorinated additives, zinc and heavy metals.

	Viscosity at 40 °C (mm²/s)	Flash point (C°)	Steel	High alloy steel	Aluminium alloy	Copper alloy
<b>SUPRACUT INO 20 MG</b>	22	204	•	•	◯	◯

• recommended / ◯ check for compatibility and operation before use / - not recommended

#### ADVANTAGES



High flash point



Low volatility



Excellent anti-wear properties



Excellent Extreme Pressure properties



Reinforced lubricating and cooling powers



Low consumption



**SUPRACUT INO SERIES** - Innovative cutting fluids to meet future needs and standards

**SUPRACUT INO XG**

SUPRACUT INO XG is a premium chlorine and sulphur-free range of neat cutting oils designed for all hard machining on non-ferrous and ferrous metals. It is best suited for machining stainless steel, titanium, hard steels, nickel alloys and hard metals. It is well adapted for use at high feed rates, under heavy duty and with high-pressure spray systems.

	Viscosity at 40 °C (mm²/s)	Flash point (C°)	Steel	High alloy steel	Aluminium alloy	Copper alloy
SUPRACUT INO 20 XG	22	202	•	•	○	○

• recommended / ○ check for compatibility and operation before use / - not recommended

**ADVANTAGES**



High flash point



Low mist & evaporation



Various applications



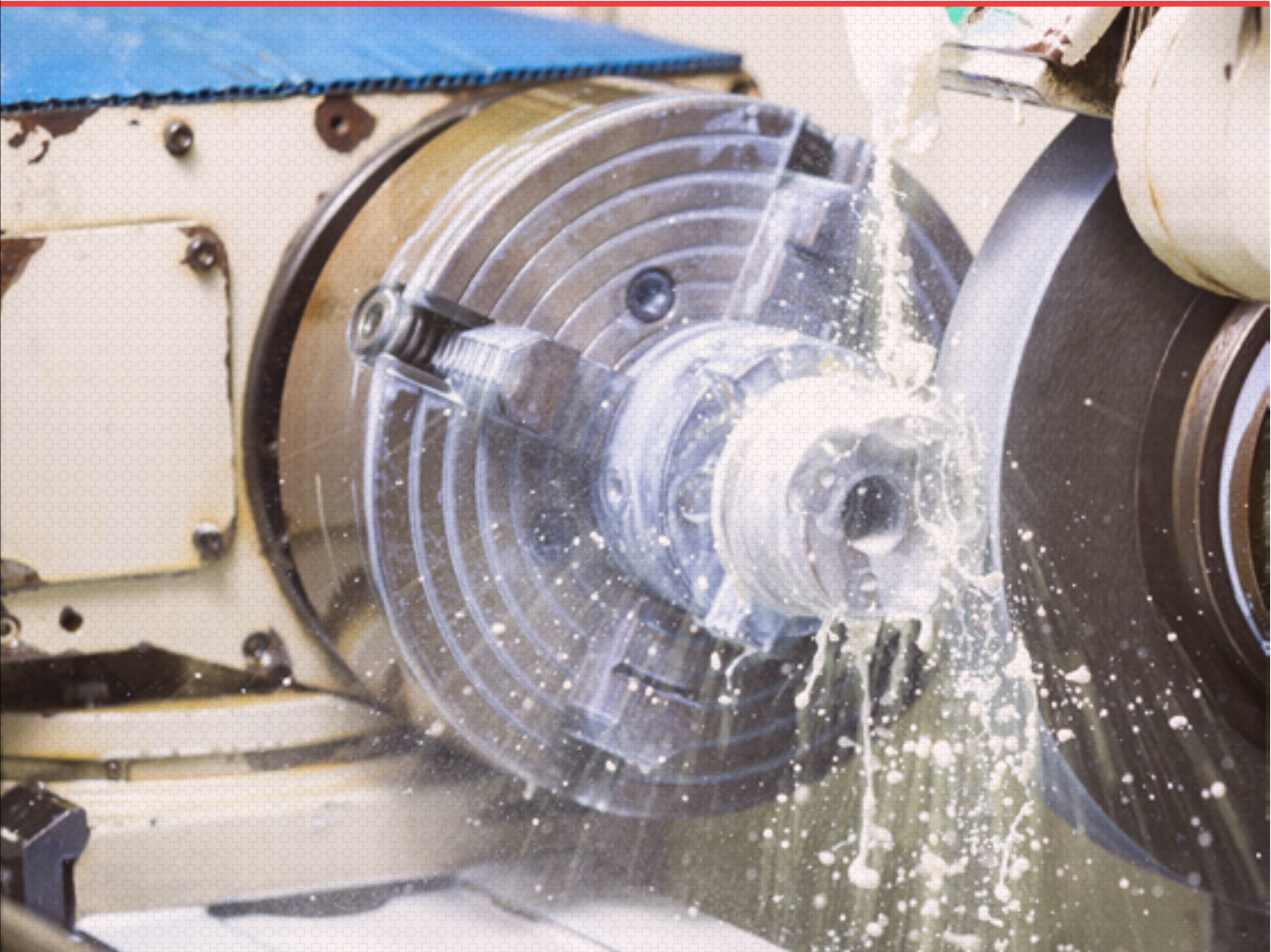
High viscosity index



High anti-wear properties



High Extreme Pressure capacity





## SUPRACUT MQL SERIES - Minimum Quantity Lubrication fluids

Dedicated to machining of big dimension parts and developed from the latest high technology additives, SUPRACUT MQL range offers outstanding performances. Based on high performance vegetable and synthetic esters, SUPRACUT MQL oils have high lubrication ability and very good anti-wear properties. Milling and sawing on aluminium are the most suitable use, but it can also be used for other applications.

### SUPRACUT MQL

	Viscosity at 40 °C (mm <sup>2</sup> /s)	Flash point (°C)	Steel	High alloy steel	Aluminium alloy	Copper alloy
SUPRACUT MQL 15	15	>210	•	-	•	•
SUPRACUT MQL 20	22	180	•	-	•	•
SUPRACUT MQL 30	30	>250	•	-	•	•
SUPRACUT MQL 45	45	>290	•	-	•	•

• recommended / ◦ check for compatibility and operation before use / - not recommended

### ADVANTAGES



High flash point



Low mist & evaporation



Various applications



High viscosity index



High anti-wear properties





## SUPRACUT B SERIES - Broaching & Deep hole drilling fluids

SUPRACUT B series contain high levels of extreme pressure and lubricity additives and has been developed specifically for heavy-duty operations. It is suitable for various operations including broaching, deep hole drilling, tapping and gear cutting of ferrous metals, stainless steels, titanium, nickel alloys and all alloys difficult to machine.

### SUPRACUT B

Broaching, deep hole drilling, tapping and gear cutting of all alloys difficult to machine such as stainless steels, nickel alloys, titanium. SUPRACUT 50 B is suitable for deep drawing deformations, rolling and for all operations involving manual lubrication. It can also be used as an extreme-pressure booster additive for all other SUPRACUT series.

	Viscosity at 40 °C (mm²/s)	Flash point (°C)	Steel	High alloy steel	Aluminium alloy	Copper alloy
<b>SUPRACUT 15 B</b>	15	168	•	•	-	-
<b>SUPRACUT 30 B</b>	30	>180	•	•	-	-
<b>SUPRACUT 40 B</b>	40	196	•	•	-	-
<b>SUPRACUT 50 B</b>	50	200	•	•	-	-

• recommended / ◐ check for compatibility and operation before use / - not recommended

#### ADVANTAGES



High flash point



Very high Extreme Pressure property



High lubricating power



Improves tool life

### SUPRACO SPRAY

Aerosol for manual threading, drilling, manual and semi-automatic tapping of hard metals.

	Viscosity at 40 °C (mm²/s)	Flash point (°C)	Steel	High alloy steel	Aluminium alloy	Copper alloy
<b>SUPRACO SPRAY</b>	50	100	•	•	-	-

• recommended / ◐ check for compatibility and operation before use / - not recommended

#### ADVANTAGES



Very high Extreme Pressure property



Improves tool life



High lubricating power



# SUPRACUT EDM SERIES - Electro Discharge Machining fluids

## SUPRACUT EDM

SUPRACUT EDM series multipurpose dielectric fluid for use in all discharge machines working by penetration especially for roughing, finishing and superfinishing operations.

	Viscosity at 40 °C (mm²/s)	Flash point (°C)	Steel	High alloy steel	Aluminium alloy	Copper alloy
SUPRACUT EDM 03	2.3	103	•	•	•	•

• recommended / ◦ check for compatibility and operation before use / - not recommended

### ADVANTAGES



Excellent cooling power



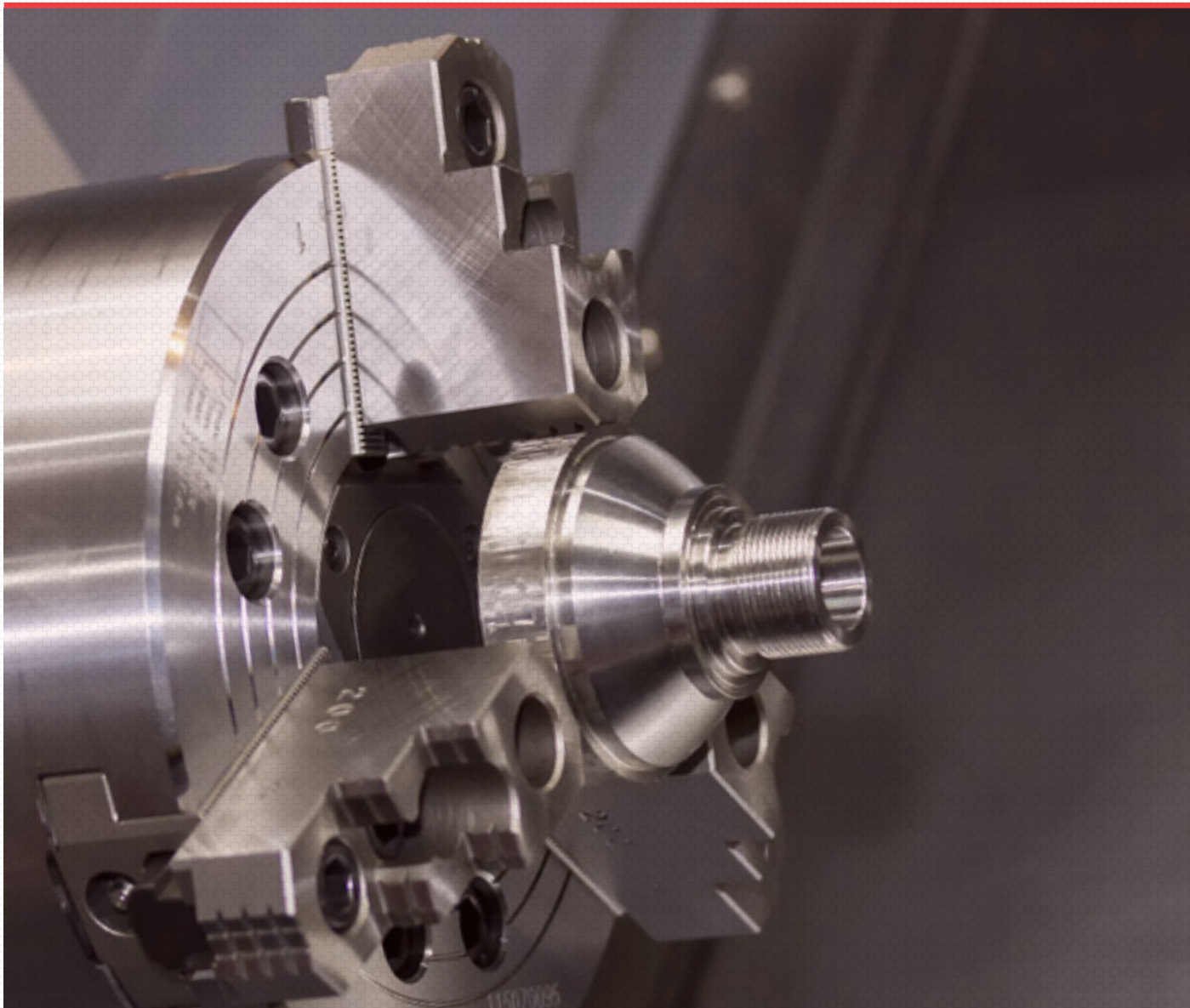
High oxidation & pyrolysis resistance



High flash point



Excellent filterability





## SUPRAGRIND SERIES - Grinding, Honing, Lapping & Super finishing fluids

SUPRAGRIND series have been specifically designed for grinding, honing, lapping and all super-finishing operations of ferrous and non-ferrous metals.

### SUPRAGRIND 05 G

For high yields machining operations of all types of materials, lapping, grinding and sharpening of HSS and carbide tools with diamond or CBN wheels.

	Viscosity at 40 °C (mm <sup>2</sup> /s)	Flash point (°C)	Steel	High alloy steel	Aluminium alloy	Copper alloy
<b>SUPRAGRIND 05 G</b>	5	132	•	•	•	•

• recommended / ◦ check for compatibility and operation before use / - not recommended

#### ADVANTAGES



Excellent cooling power



High oxidation resistance



Excellent filterability



High flash point

### SUPRAGRIND X

For grinding of poor machinability hard metals, carbide and high-speed steel tools using diamond grinding wheels or CBN grinding wheels.

	Viscosity at 40 °C (mm <sup>2</sup> /s)	Flash point (°C)	Steel	High alloy steel	Aluminium alloy	Copper alloy
<b>SUPRAGRIND 10 X</b>	10	158	•	•	◦	◦

• recommended / ◦ check for compatibility and operation before use / - not recommended

#### ADVANTAGES



Excellent cooling power



High oxidation resistance



High Extreme Pressure capacity



High flash point



Excellent filterability



# SUPRAGRIND EVO SERIES - Grinding, Honing, Lapping & Super finishing fluids

SUPRAGRIND EVO series are formulated with highly refined base stocks with high viscosity index (HVI). They are designed for grinding, honing, lapping and all super-finishing operations of ferrous and non-ferrous metals. Thanks to their low mist ability, SUPRAGRIND EVO series improve operators experience and production efficiency.

## SUPRAGRIND EVO M

For high yields machining operations of all types of materials, lapping, grinding and sharpening of HSS and carbide tools with diamond or CBN wheels.

	Viscosity at 40 °C (mm²/s)	Flash point (°C)	Steel	High alloy steel	Aluminium alloy	Copper alloy
SUPRAGRIND EVO 08 M	8	170	•	•	•	•

• recommended / ◦ check for compatibility and operation before use / - not recommended

### ADVANTAGES



Excellent cooling power



High oxidation resistance



Excellent filterability



High flash point





**SUPRAGRIND INO SERIES** - Grinding, Honing, Lapping & Super finishing fluids

SUPRAGRIND INO series are formulated with innovative base stocks and additives to reduce the impact on the environment and diminish the risks for the operators without sacrificing the performances.

**SUPRAGRIND INO GV**

SUPRAGRIND INO 08 GV is especially adapted to all operations of lapping, grinding and sharpening of HSS and carbide tools with diamond or CBN wheels.

	Viscosity at 40 °C (mm²/s)	Flash point (°C)	Steel	High alloy steel	Aluminium alloy	Copper alloy
SUPRAGRIND INO GV	8	184	•	•	•	•

• recommended / ◦ check for compatibility and operation before use / - not recommended

**ADVANTAGES**



Excellent cooling power



High oxidation resistance



High flash point





# SOLUBLE FLUIDS

MotulTech high performances soluble fluids cover a wide range of machining applications. Their formulations answer the highest regulation standards. In addition, MotulTech proposes a complete range of products and services to ensure fluid maintenance and guarantee the best performances level. All products are formaldehydes and formaldehydes releasers free.

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## BIOCOOL SERIES - High performance additives and maximum cooling capacity

BIOCOOL range offers an optimal protection against corrosion while maintaining a clean machine environment and very low mist level. It is particularly suitable for machining and grinding of steel alloys and hard metals.

### ADVANTAGES



Excellent cooling power



Excellent biostability & stability in use



Very good particles settling properties and good separation from tramp oils



Very good protection against corrosion

### BIOCOOL 3210

Water-soluble fluid for light to medium duty grinding operations on ferrous and hard metals.

Appearance in dilution	Concentration in use	Water hardness (ppm)	Cast iron	Steel	Steel alloys & stainless steel	Aluminium	Yellow metals
Clear yellow-green	4 – 14%	0 - 800	•	•••	••	-	-

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### BIOCOOL 3520

Water-soluble fluid for light to medium duty grinding operations on ferrous and hard metals. Thanks to its specific formulation, BIOCOOL 3520 avoids the cobalt leaching.

Appearance in dilution	Concentration in use	Water hardness (ppm)	Cast iron	Steel	Steel alloys & stainless steel	Aluminium	Yellow metals
Clear yellow-green	3 – 6%	0 - 600	••	•••	•••	-	-

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### BIOCOOL 3740

Water-soluble fluid for medium to heavy duty machining and grinding operations on hard metals. BIOCOOL 3740 is compatible with very high pressure (up to 400 bar). BIOCOOL 3740 is approved by SNECMA.

Appearance in dilution	Concentration in use	Water hardness (ppm)	Cast iron	Steel	Steel alloys & stainless steel	Aluminium	Yellow metals
Opalescent yellow-green	3 – 15%	0 - 500	•	•••	•••	•	•

### BIOCOOL 3820

Water-soluble, boron-free for all machining and grinding operations on ferrous metals, hard metals, copper alloys and aluminium.

Appearance in dilution	Concentration in use	Water hardness (ppm)	Cast iron	Steel	Steel alloys & stainless steel	Aluminium	Yellow metals
Clear yellow-green	3 – 12%	0 - 600	••	•••	••	•	•

### BIOCOOL 3837 GR

Water-soluble, boron-free for medium to heavy duty grinding operations on ferrous metals.

Appearance in dilution	Concentration in use	Water hardness (ppm)	Cast iron	Steel	Steel alloys & stainless steel	Aluminium	Yellow metals
Clear yellow-green	4 – 12%	0 - 400	•••	•••	•••	-	-



## SAFKOOL SERIES - The best compromise between lubricating and cooling properties

SAFKOOL range is compatible with most materials and machining operations. The characteristics of this range along with their low-foaming and good bio-stability properties, make it particularly adapted to the constraints of automotive industry. SAFKOOL products are boron-free.

### ADVANTAGES



Excellent cooling power



Excellent biostability & stability in use



Very good particles settling properties and good separation from tramp oils.



Very good protection against corrosion

### SAFKOOL 6110 CS

Semi-synthetic, cost-effective concentrate fluid for light to medium duty machining and grinding on cast-iron and steels.

Appearance in dilution	Concentration in use	Water hardness (ppm)	Cast iron	Steel	Steel alloys & stainless steel	Aluminium	Aluminium aero	Yellow metals
Translucent	3 – 8%	100 - 400	...	...	•	-	-	-

### SAFKOOL 6210

Semi-synthetic concentrate fluid for light to medium machining and grinding on cast-iron and steels.

Appearance in dilution	Concentration in use	Water hardness (ppm)	Cast iron	Steel	Steel alloys & stainless steel	Aluminium	Aluminium aero	Yellow metals
Translucent	3 – 8%	100 - 400	••	•••	••	-	-	-

### SAFKOOL 6220

Semi-synthetic, multi-purpose concentrate fluid for light to medium duty machining on all metals. Thanks to its formulation, SAFKOOL 6220 is perfectly adapted for dilution in hard and very hard water.

Appearance in dilution	Concentration in use	Water hardness (ppm)	Cast iron	Steel	Steel alloys & stainless steel	Aluminium	Aluminium aero	Yellow metals
Translucent	4 – 15%	200 - 800	•••	•••	•••	•	-	•

### SAFKOOL 6420

Semi-synthetic concentrate fluid for light to medium duty machining and grinding on all metals. SAFKOOL 6420 is perfectly adapted to High Speed Machining and High Pressure and suitable with soft water.

Appearance in dilution	Concentration in use	Water hardness (ppm)	Cast iron	Steel	Steel alloys & stainless steel	Aluminium	Aluminium aero	Yellow metals
Translucent	4 – 15%	50 - 800	•••	•••	•••	••	••	•



## SAFKOOL SERIES - The best compromise between lubricating and cooling properties

### SAFKOOL 6620

Semi-synthetic concentrate fluid for medium to heavy duty machining on ferrous metals. Thanks to its dedicated additives, SAFKOOL 6620 can be suitable for broaching and some forming operations.

Appearance in dilution	Concentration in use	Water hardness (ppm)	Cast iron	Steel	Steel alloys & stainless steel	Aluminium	Aluminium aero	Yellow metals
Translucent	4 – 20%	200 - 500	••	•••	•••	-	-	.*

\*Compatible under specific conditions.

### SAFKOOL 6817 GR

Semi-synthetic concentrate fluid for light to medium duty machining and grinding on all metals.

Appearance in dilution	Concentration in use	Water hardness (ppm)	Cast iron	Steel	Steel alloys & stainless steel	Aluminium	Aluminium aero	Yellow metals
Translucent	4 – 20%	200 - 500	••	•••	•••	-	-	.*

\*Compatible under specific conditions.

### SAFKOOL 6820 SW

Semi-synthetic concentrate fluid for light to medium duty machining. SAFKOOL 6820 SW is perfectly adapted to High Speed Machining and High Pressure and suitable with soft water.

Appearance in dilution	Concentration in use	Water hardness (ppm)	Cast iron	Steel	Steel alloys & stainless steel	Aluminium	Yellow metals
Translucent	4 – 15%	50 - 400	•••	•••	•••	••	•

## SAFKOOL TMC - Steel ERW tube manufacturing

### SAFKOOL TMC

Semi-synthetic concentrate fluid dedicated to steel ERW tube manufacturing operations. SAFKOOL TMC offers a good temporary protection of the tubes against corrosion.

Appearance in dilution	Concentration in use	Water hardness (ppm)	Cast iron	Steel	Steel alloys & stainless steel	Aluminium	Yellow metals
Translucent	5 – 7%	5 - 500	•••	•••	•	-	-



## STABILIS SERIES - High lubricating power for better performances

STABILIS emulsions are characterised by their high-performance level. Multipurpose products, which even cover specificities such as aerospace aluminium machining, they are adapted to all types of metals. STABILIS range is particularly effective for machining on aluminium or hard metals, including aerospace alloys and when good surface finish is required.

### STABILIS 9120

Boron free metalworking fluid concentrate, cost-effective, for light to medium duty machining

Appearance in dilution	Concentration in use	Water hardness (ppm)	Cast iron	Steel	Steel alloys & stainless steel	Aluminium	Aluminium aero	Yellow metals
Milky white	4 - 10%	100 - 300	•	•••	••	••	.*	••

\*Compatible under specific conditions.

#### ADVANTAGES



Excellent lubricating and cooling properties



Low foaming



Excellent biostability & stability in use

MetalWorking

22

### STABILIS 9220

Metalworking multi-purpose fluid concentrate for light to medium duty machining on all metals. Bactericide free.

Appearance in dilution	Concentration in use	Water hardness (ppm)	Cast iron	Steel	Steel alloys & stainless steel	Aluminium	Aluminium aero	Yellow metals
White opalescent	4 - 12%	100 - 600	••	•••	••	••	.*	•

\*Compatible under specific conditions.

#### ADVANTAGES



Excellent lubricating and cooling properties



Low foaming



Excellent biostability & stability in use



Optimization of surface roughness & finish

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## STABILIS SERIES - High lubricating power for better performances

### STABILIS 9230

Metalworking fluid concentrate for medium to heavy duty machining. Its additives and high content of esters offer high lubricating performances for reduction of tools wear. STABILIS 9230 is approved by SNECMA and HP compatible (up to 70 bar). Bactericide & isothiazolinone free.

Appearance in dilution	Concentration in use	Water hardness (ppm)	Cast iron	Steel	Steel alloys & stainless steel	Aluminium	Aluminium aero	Yellow metals
White opalescent	4 – 15%	100 - 500	••	•••	•••	•••	•••	•

#### ADVANTAGES



Excellent lubricating and cooling properties



Reduction of tools wear



Optimization of surface roughness & finish



Excellent biostability & stability in use



Good release of tramp oils

### STABILIS 9837 AL

Boron free metalworking fluid concentrate for medium to heavy duty machining. Its additives and high content of esters offer high lubricating performances for reduction of tools wear. Thanks to its formulation, STABILIS 9837 AL is perfectly adapted for dilution in hard and very hard water.

Appearance in dilution	Concentration in use	Water hardness (ppm)	Cast iron	Steel	Steel alloys & stainless steel	Aluminium	Aluminium aero	Yellow metals
Milky white	5 – 15%	100 - 500	••	•••	•••	•••	•*	••

\*Compatible under specific conditions.

#### ADVANTAGES



Good cooling & detergency properties



Excellent biostability & stability in use



Low foaming



Very good lubricity



## STABILIS SERIES - High lubricating power for better performances

### STABILIS 9910 AL

Boron, amine and bactericide free metalworking fluid concentrate for light to medium duty machining. STABILIS 9910 AL dedicated formulation allows it to be used at lower pH without problem and made it suitable for most materials including aerospace aluminium alloys.

Appearance in dilution	Concentration in use	Water hardness (ppm)	Cast iron	Steel	Steel alloys & stainless steel	Aluminium	Aluminium aero	Yellow metals
Milky white	5 - 15%	100 - 600	•	•••	••	••	••	••

#### ADVANTAGES



Very good cooling



Excellent biostability & stability in use



Low foaming

### STABILIS 9920 AL

Boron and bactericide free metalworking fluid concentrate for light to medium machining. STABILIS 9920 AL is suitable for most materials including aerospace aluminium alloys.

Appearance in dilution	Concentration in use	Water hardness (ppm)	Cast iron	Steel	Steel alloys & stainless steel	Aluminium	Aluminium aero	Yellow metals
Milky white	4 - 15%	100 - 400	•	•••	••	••	••	••

#### ADVANTAGES



High oxidation resistance



Excellent biostability & stability in use



Low foaming



**SAFCOLITH GR 2 NS - Stone & minerals cutting fluids**

SAFCOLITH GR 2 NS is a soluble concentrate which facilitates granite cutting and increases the life of diamond tools. It can be used for cutting of granite blocks on cutting machines or multi disks machines. SAFCOLITH GR 2 NS is recommended for installations with natural decantation.

**SAFCOLITH GR 2 NS**

Appearance in dilution	Concentration in use	Water hardness (ppm)	Cast iron	Steel	Steel alloys & stainless steel	Aluminium	Yellow metals
Milky white	1.5 - 2.5%	100 - 300	•	•••	••	-	-

**ADVANTAGES**



Easy decantation of granite muds



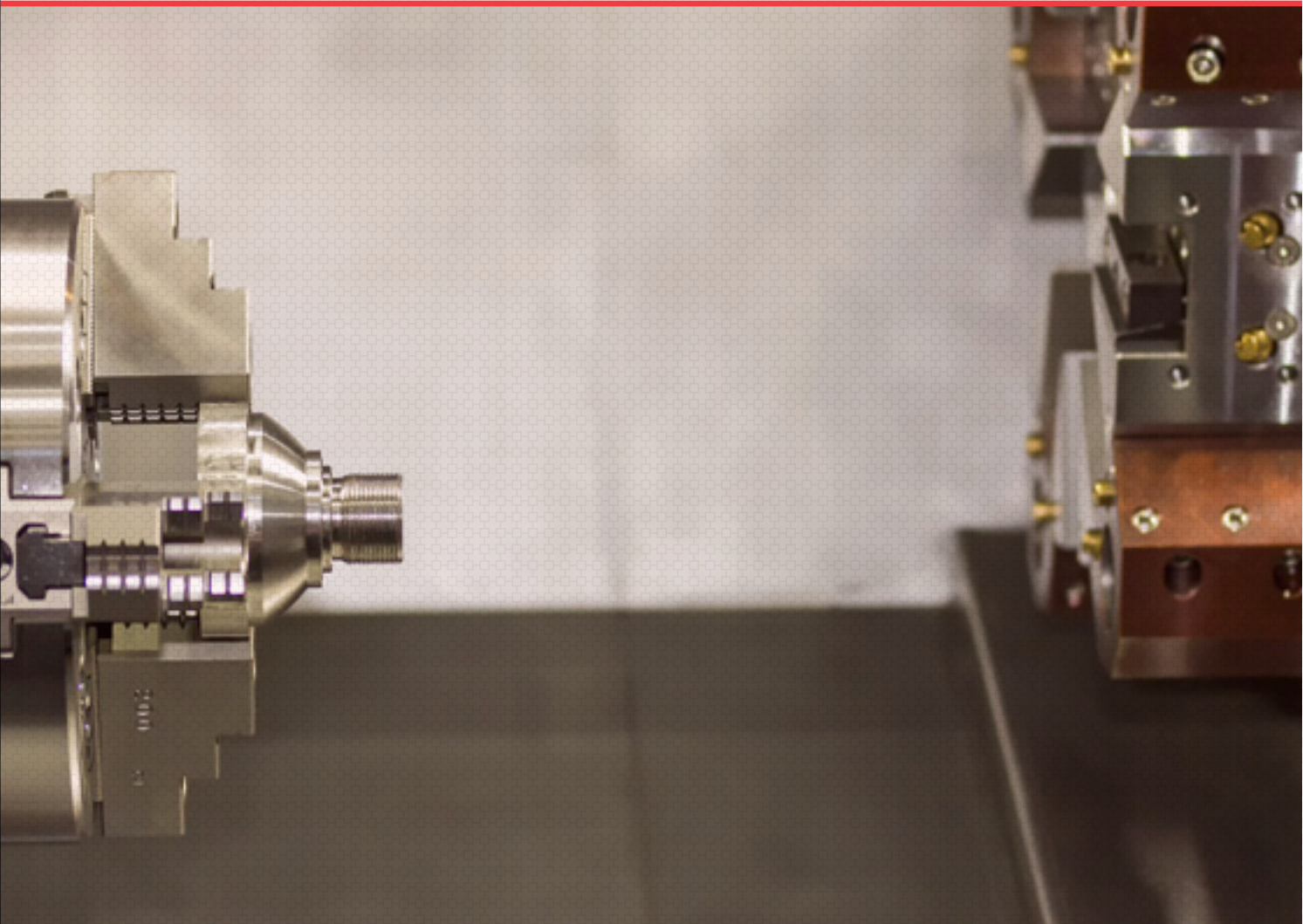
Low consumption



Excellent lubricating for stone cutting



Increased tool life



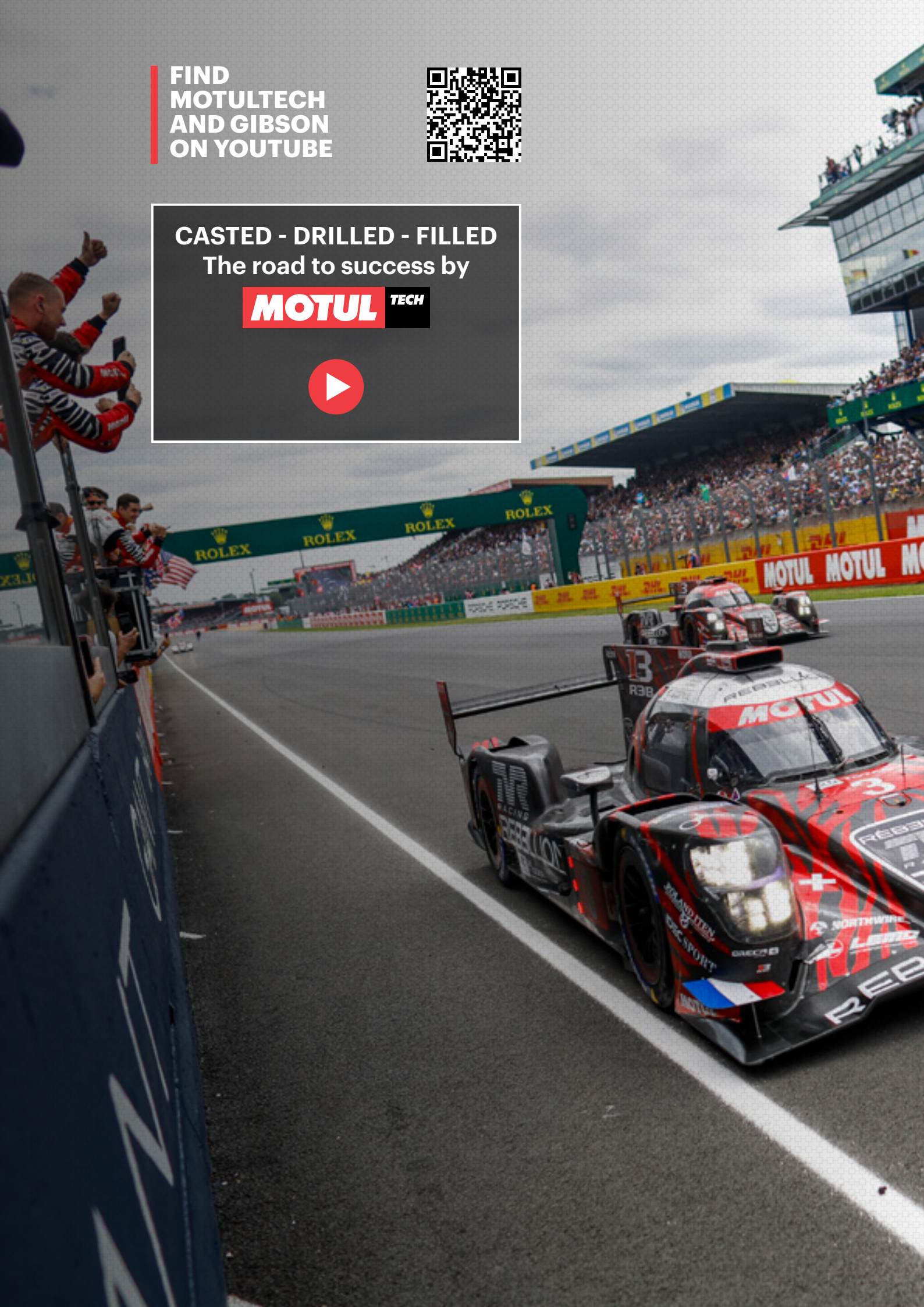


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