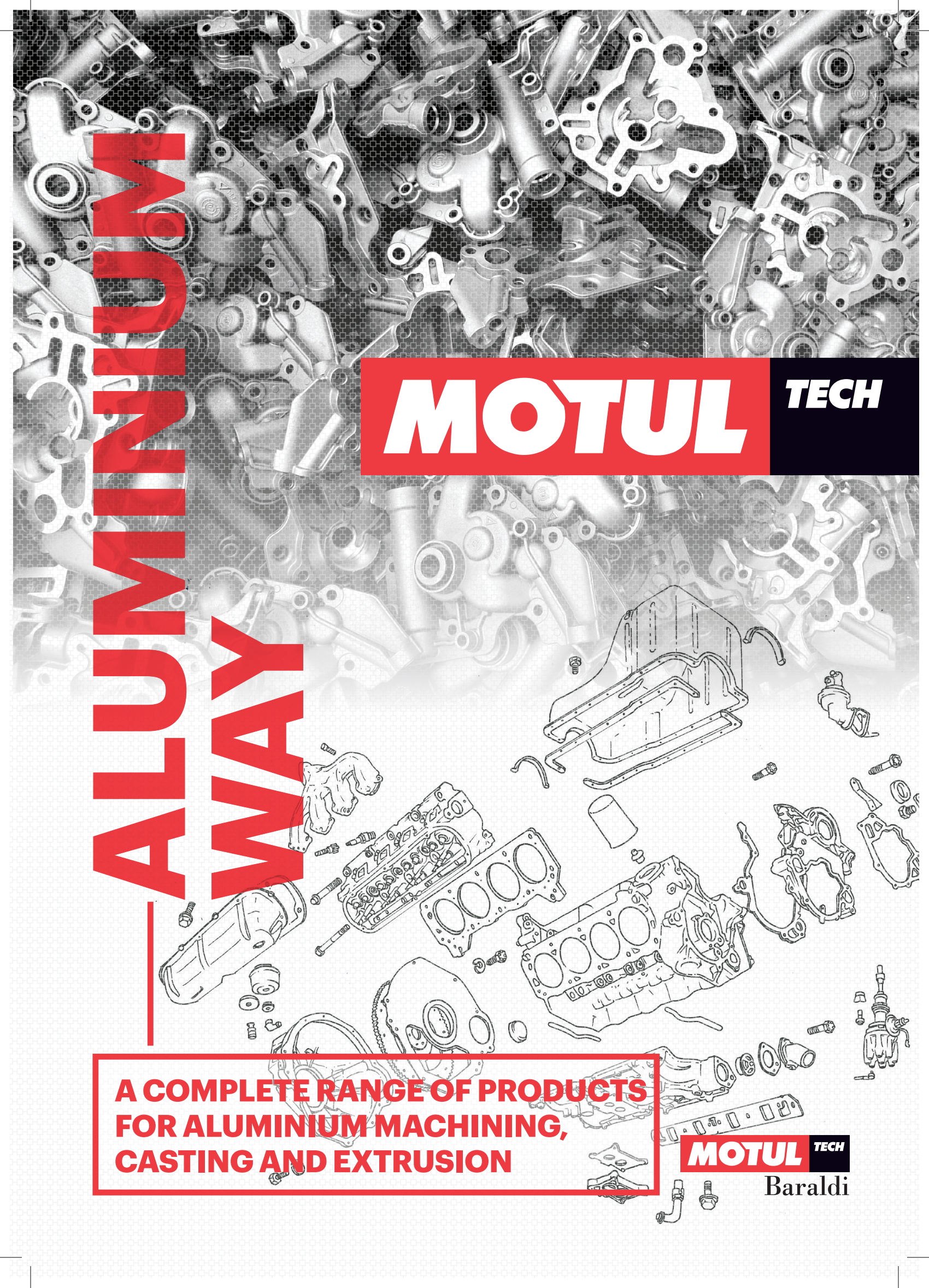




ALUMINUM WAY

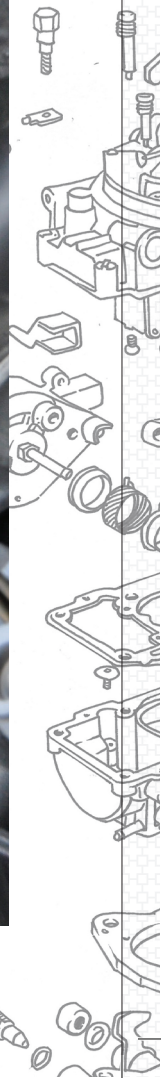
MOTUL

TECH

**A COMPLETE RANGE OF PRODUCTS
FOR ALUMINIUM MACHINING,
CASTING AND EXTRUSION**

MOTUL **TECH**

Baraldi

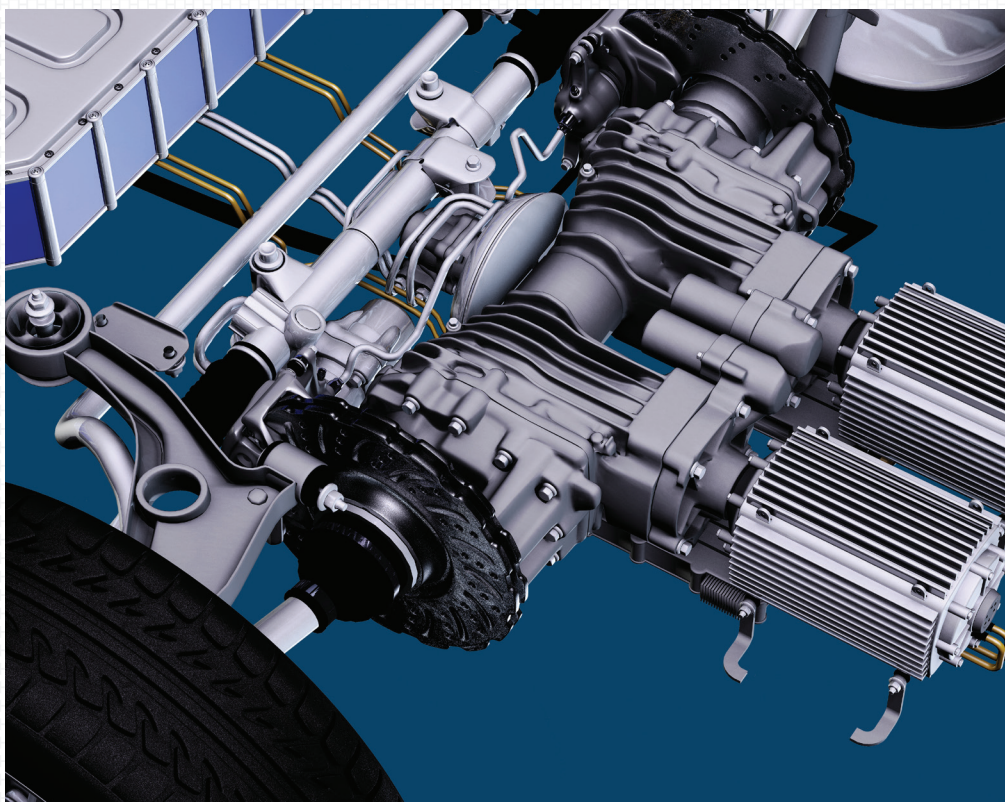
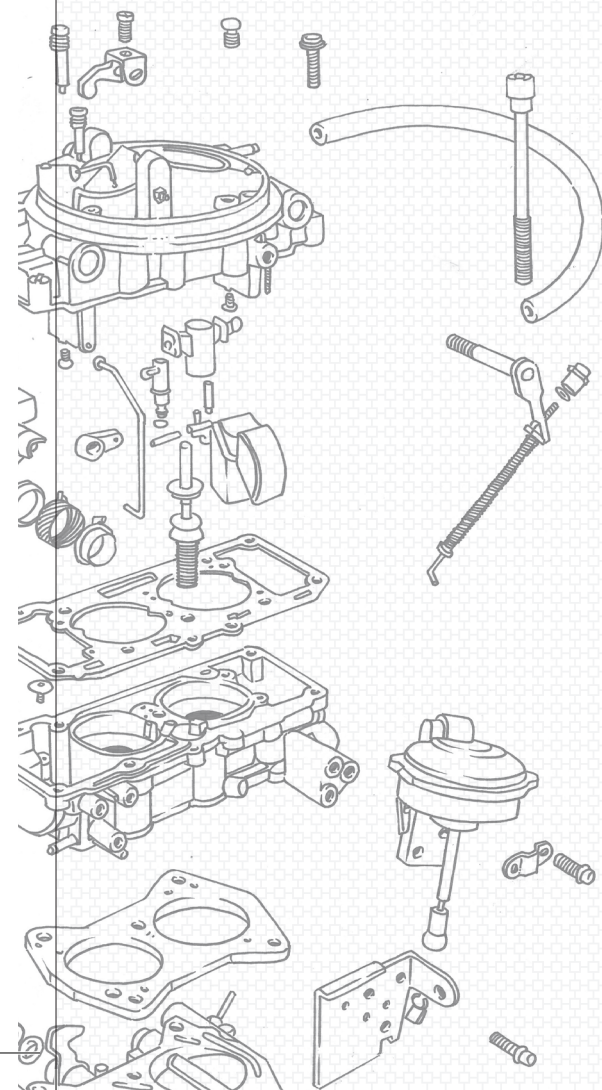


MotulTech is a division of the Motul group, an international French industrial group, since 1853 in high performance lubricants. MotulTech develops, manufactures and markets industrial high technology lubricants for the machining and transformation of metals, as well as the high performance lubrication of industrial equipment. MotulTech has presence in many countries all over the world through its products and services as well as production and R&D.

Within Motul Group, MotulTech Baraldi, fluids specialist for Extrusion and aluminum high pressure die casting brings its expertise to meet the challenges of the industry by offering comprehensive solutions that cover products, services and training, for optimize production processes and reduce downtime and rejects.

The concept "Aluminum Way" by MotulTech Baraldi offers an integrated solution covering all stages of the working of aluminum, from injection to machining through extrusion and deformation.

The fast evolution of the automotive market towards fuel efficient vehicles, and therefore lighter, drove manufacturers to multiply aluminum alloys parts in their models. The increasing complexity of parts imposes new processes of production. The "Aluminum Way" offer by MotulTech is a smart and integrated solution to those new challenges.



MOTUL GROUP

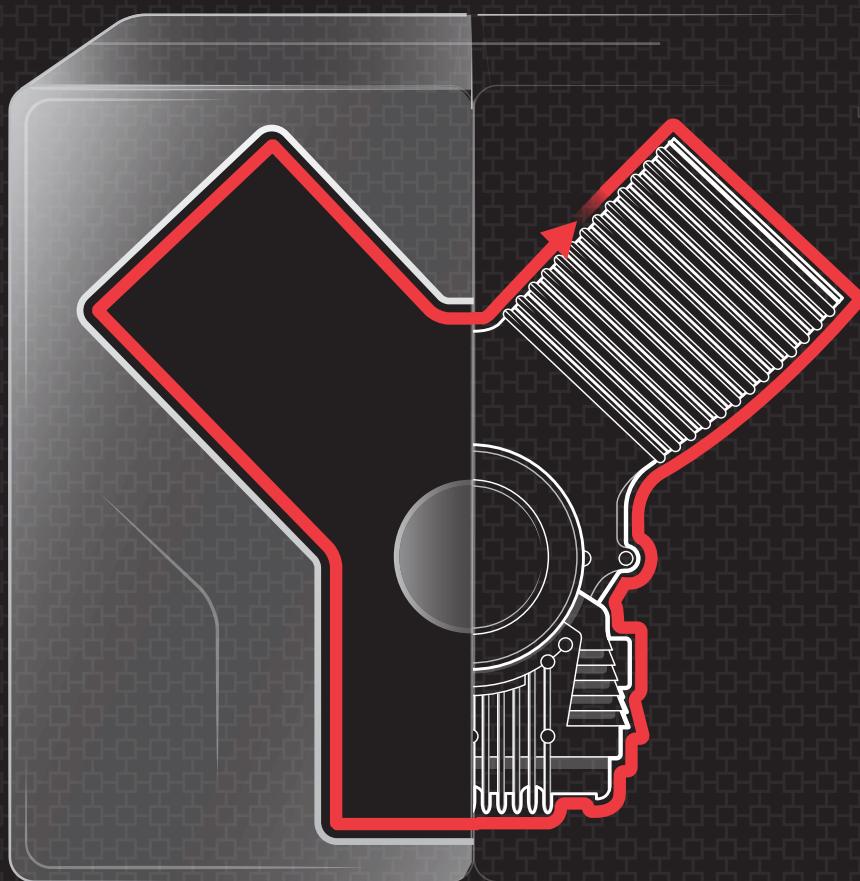
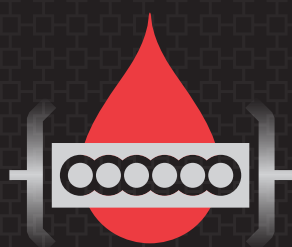
MOTUL TECH
Baraldi

MOTUL TECH

MotulTech | Aluminium Way

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2018



1

CASTED

FROM MELTED METAL TO DIE CASTED
METAL BODIES



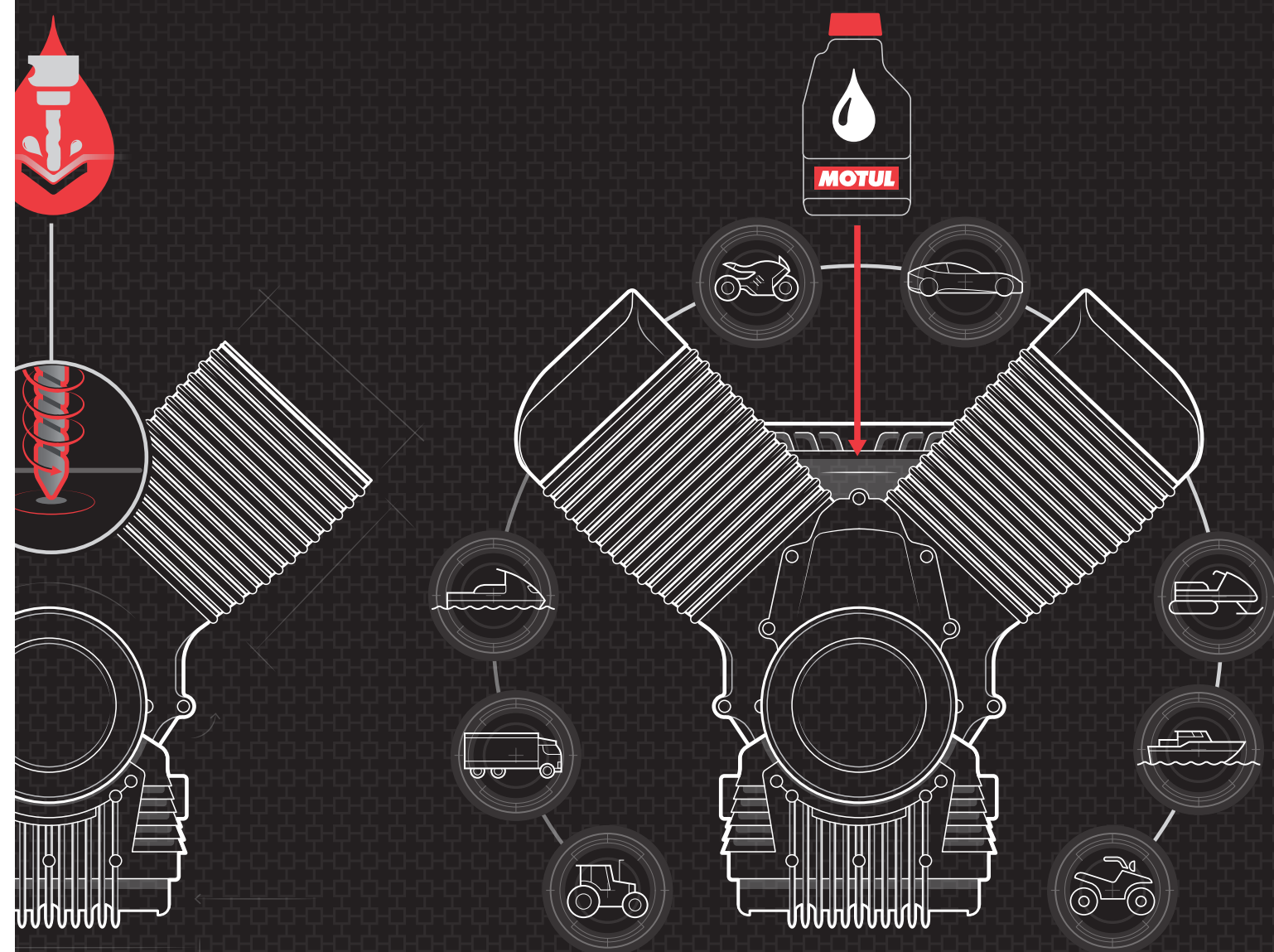
2

DRILL

TRANSFORMING
INTO FINISHED

UP EXPERTISE

MOTUL



RILLED

MING RAW METAL
NISHED PARTS

3

FILLED

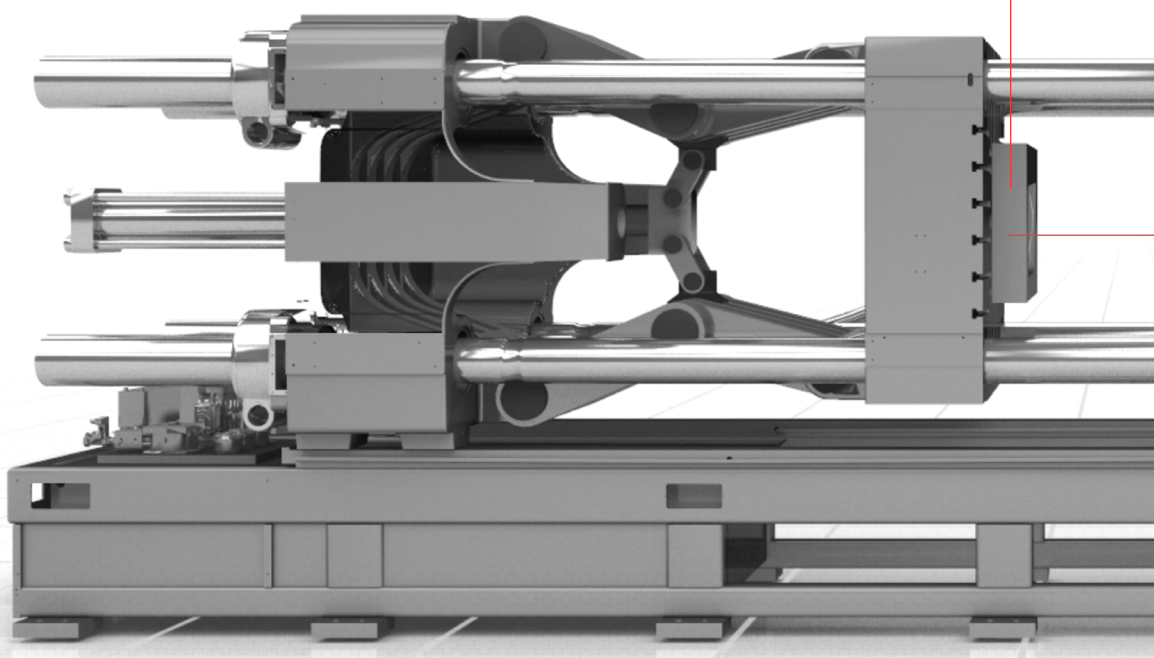
GETTING THE BEST FROM ALL TYPES OF ENGINES
WITH HIGH PERFORMANCE LUBRICANTS

RELEASE AGENTS FOR ALUMINIUM HIGH PRESSURE DIE CASTING

The permanent search of solutions for aluminium high pressure die casting has driven MotulTech Baraldi into developing a complete line of lubricants and release agents for thin-walled or thick-walled and complex geometry parts. The CASTING release agents and PISTOCAST piston lubricants ranges are constantly enlarged with new references to solve the problems encountered in production by our customers.

QUALITY CONTROL

Die surface Temperature control device.



PROCESS AUXILIARIES

Toggle Lubricants
Ladle Coatings
Ejector Lubricants
Anti-soldering Wax
Warm Up Lubricants

B-TECH TOGGLE
B-TECH DECAL
B-TECH PASTE
B-TECH DEMETAL
WARM UP LUBE

PROCESS PRODUCTS

Die Lubricants
Piston Lubricants
Hydraulic Fluid

CASTING range
PISTOCAST range
AQUACAST range

MOTUL **TECH**
Baraldi

MAINTENANCE PRODUCTS

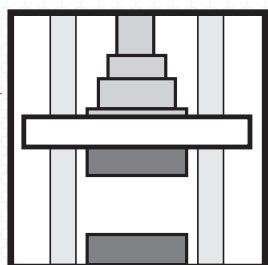
Application system cleaner
Mold cleaner

B-TECH CLEANER LINE
B-TECH CLEANER LINE

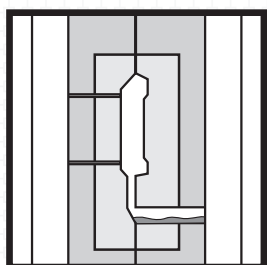
MotulTech | Aluminium Way

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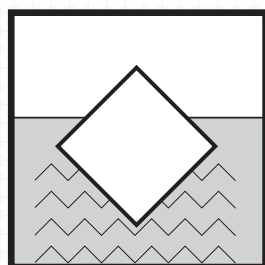
2018



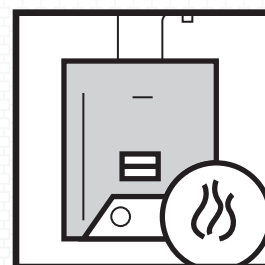
Shear Lubricants
B-TECH LUBE



Tank, Piping, Manifold
Cleaners
B-TECH CLEANER
B-TECH PASTE



Quenchant additives
B-TECH QUENCH

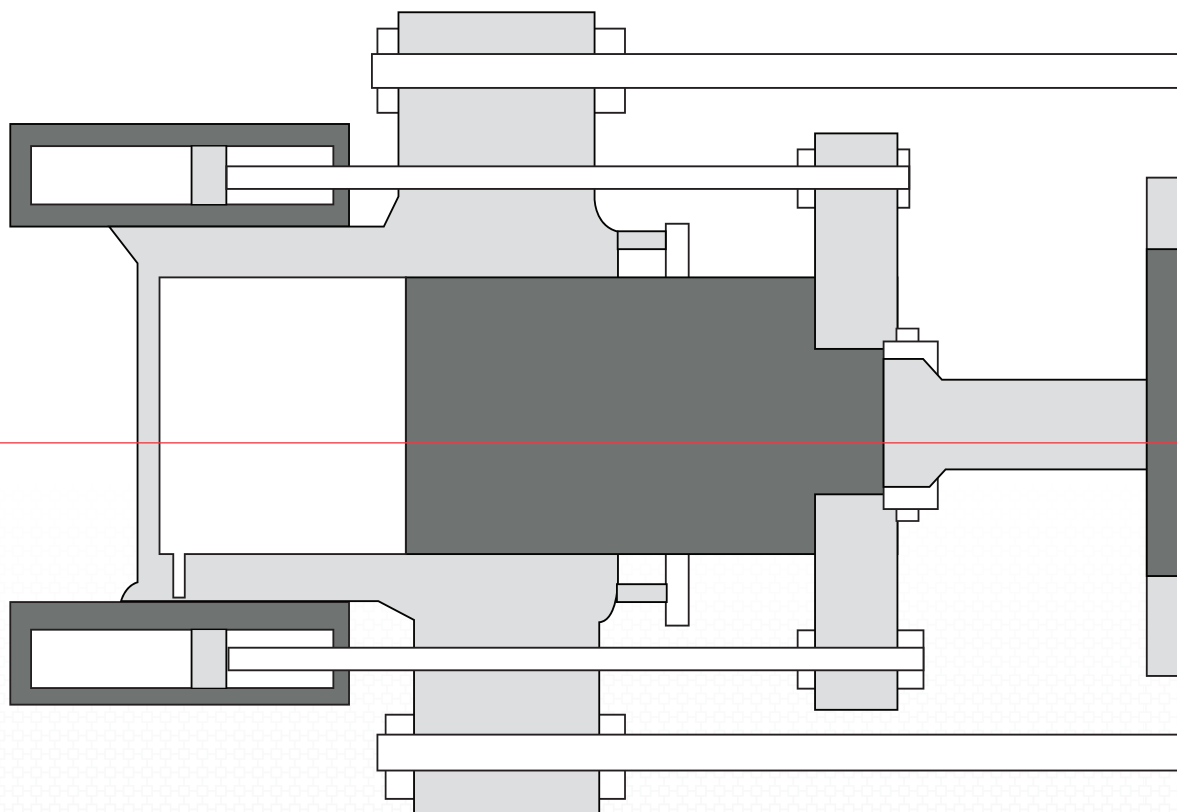


Oils for Exchanger
B-TECH DIATHERM

LUBRICANTS FOR ALUMINIUM EXTRUSION



Extrusion makes possible to produce by hot deformation aluminum profiles used in many field like construction or automobile industry. This method allows to obtain complex shapes with great precision and high productivity, without generating material losses. These operations are realized at high temperature, with high hydraulic pressures, which involves the use of suitable fluids and lubricants.



PISTON

The performance required for Piston release agent:

- Good adhesion on the billet
- Good anti-adherent power
- No hazardous fumes or vapors
- Non flammable at working temperature
- Do not accumulate on the slide
- Does not make the floor slippery
- Without environmental impact

STAG 11

Meets all these requirements.

- Innovative product approved by many extruders and OEM.
- Safe for the environment, water-based, without danger labeling
- Easy application in aerosol
- Easy deposit cleaning with water
- Non-flammable
- Does not make the floor of the factory slippery, contrary to usual products in powder
- Avoid scratches on the profiles caused by the products conventional

SHEAR

Requires a product that lubricates and protects in high temperature and friction conditions. The lubricant used must meet the following requirements:

- Good adhesion to treated surfaces
- Maximum lubricating and anti-seizing power
- High flash point
- Without impact on operators and environment

STAG RP/1

Innovating water soluble product

- Very high lubricating and anti-seizing power
- Very low risk of flammability
- Reduced harmfulness
- Water content allows to have slight cooling properties

STAG 98/AL

Innovative neat oil

- 100% synthetic
- High flash point
- Without labeling

DIE (PRE-HEATING)

Before going into preheating in the oven, the die requires a protective film.

SPRAYGRAPH G 30

- Dry lubricant Aerosol
- Protects the die
- No fumes or steam in production during preheating
- Easy and fast application

DIE AND AUXILIARIES

Point lubrication is necessary for avoid the bonding of the alloy being extruded and the die.

CASTING AL PASTE

- Pigmented paste
- Enables high throughput
- Compatible with high working temperatures

NEAT OILS FOR ALUMINIUM MACHINING

There are many types of aluminum alloys, with different hardness characteristics, malleability and corrosion resistance. The machining fluids must therefore be adapted to each series. However, they have common machining characteristics such as chip bonding, built edges, and a high thermal conductivity which make its machining difficult. The good machinability of aluminum involves very high rotation frequencies and machining speeds (HSM) which imposes to use specific machining fluids.

In order to provide an appropriate response to these challenges, a complete range of aqueous machining fluids with a high lubricating power and an innovative choice of additives was developed by MotulTech. The H&S aspect of these products has been carefully designed: they are all formulated without formaldehyde releasers in order to meet the requirements of the most restrictive legislation in force (REACH) The range offers three levels of performance to cover all applications:

ROUGHING, SEMI FINISHING

STABILIS 9120

Formaldehyde and boron free emulsion for standard to moderately difficult machining operations.

FROM ROUGHING TO FINISHING

STABILIS 9820 AL

Emulsion without formaldehyde, without boron, intended for standard to medium machining difficult of aluminium parts.

STABILIS 9920 AL

Emulsion without formaldehyde, without amines and without boron, intended for standard to moderately difficult machining of aluminium parts. Helps to meet the most demanding HSE requirements.

FINISHING TO SUPER FINISHING

STABILIS 9837 AL

Emulsion without formaldehyde, without boron, for difficult machining of aluminium parts.

STABILIS 9230

Formaldehyde-free emulsion for difficult machining of aluminium parts. SNECMA approval.



PRODUCT	CONCENTRATION IN USE %	WATER HARD- NESS RANGE (°F)	APPLICATION	ADVANTAGES
STABILIS 9120	6-10	20-60	Grinding & Machining	Versatile product
STABILIS 9820 AL	6-15	10-50	Moderately severe operations of milling, Drilling, Tapping, Boring, Sawing	Good price-performance ratio
STABILIS 9920 AL	6-15	10-60	Moderately severe operations of milling, Drilling, Tapping, Boring, Sawing. Adapted for use in centralized lubrication system	Meets the strictest HSE requirements
STABILIS 9837 AL	5-12	10-80	Difficult operations of Milling, Drilling, Tapping, Reaming, Sawing. Suitable for a use in centralized lubrication system	Excellent stability in hard water. Excellent surface finish.
STABILIS 9230	6-15	10-50	Difficult operations Milling, Drilling, Tapping, Reaming, Sawing	Compatible with high pressure and HSM. Excellent surface finishing SNECMA Approval

NEAT OILS FOR ALUMINIUM MACHINING

The MotulTech range of neat oils offers a complete range of solutions in Minimum Quantity Lubrication for sawing or machining large aluminum parts. This range was developed from additives from last generation. Based on high performance esters, the Supraco 1300 micro-spray range of products have high lubricating power and anti-wear characteristics.

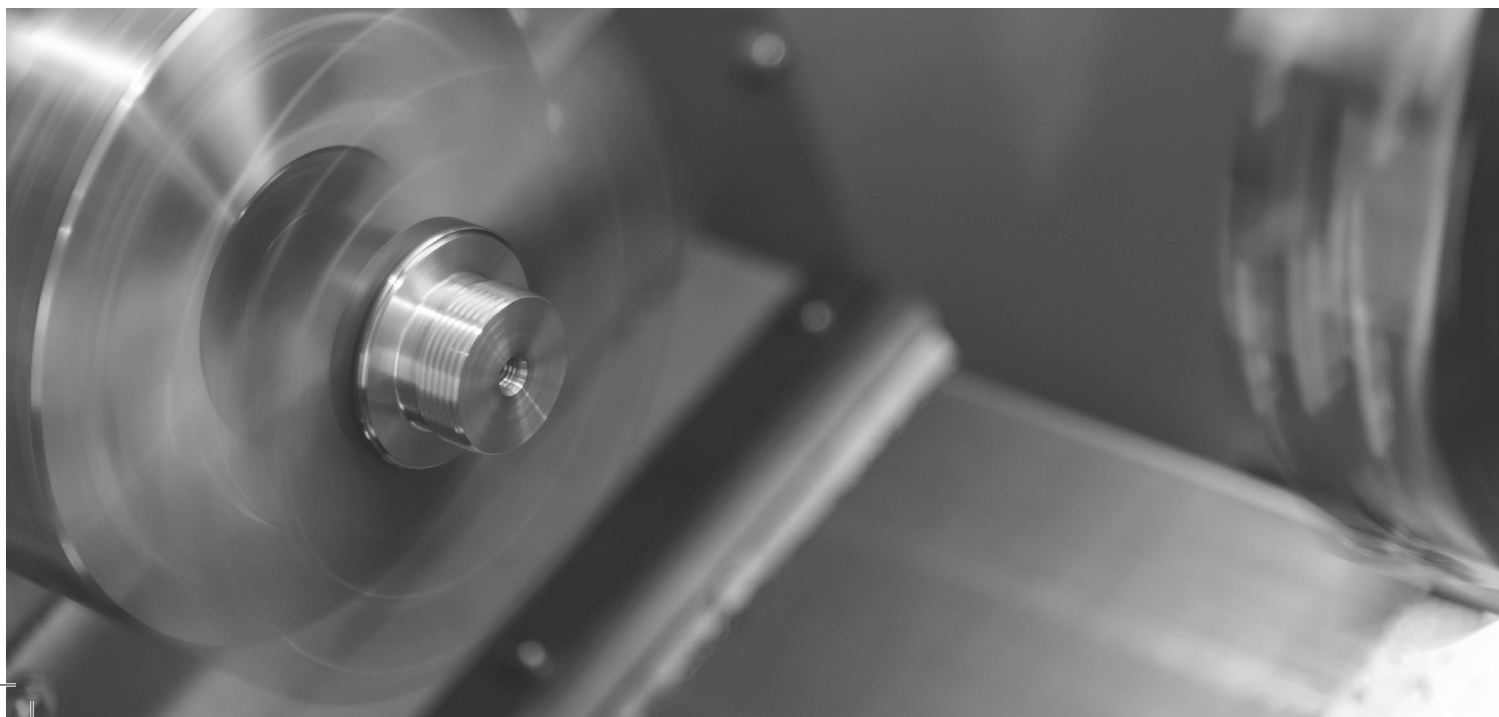
- Minimum consumption
- No labeling
- High biodegradability
- High flash point
- Easy degreasing
- Temporary protection of parts against corrosion

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PRODUCT	VISCOSITY AT 40°C (MM²/S) ISO 3104	BIODEGRADABILITY (%) CEC L33T82	APPLICATION	ADVANTAGES
SUPRACO 1308	46	80	Milling on aluminium	Optimal for the machining of large parts with lost lubrication
SUPRACO 1309	32	98	Boring and reaming on aluminium	Optimum lubrication in a confined environment where the tool is subjected to friction and therefore to significant warm-ups
SUPRACO 1315	15	60	Milling, deep drilling, sawing, turning	Usable on the aluminum of bad machinability whose machining generates an important warm-up
SUPRACO 1320WR	22	90	Machining and sawing on aluminium	Leaves no residue on parts after steaming





NON FLAMMABLE HYDRAULIC FLUIDS FOR HIGH PRESSURE DIE CASTING

RUBRIC HFC 40

APPLICATION

Non Flammable hydraulic fluid HFC type (Water-Glycol). RUBRIC HFC 40 is used for hydraulic units near heat sources and other sources that could lead to a fire. (Casting machines, holding furnace, foundry or shell workshop, continuous casting, electric furnace, etc.) RUBRIC HFC 40 meets the requirements of the 7th Luxembourg report.

ADVANTAGES

- High resistance to inflammation
- Excellent lubricity
- Excellent protection against corrosion
- Does not form deposits

VISCOSITY @ 40°C (CST)	VISCOSITY @ 100°C (CST)	VISCOSITY INDEX	BASE OIL	POUR POINT °C	FLASHPOINT °C
40	9	> 150	Synthetic	-50	none



SAFCO KLEEN: THE MOTULTECH RANGE OF SOLVENT CLEANERS

FEATURES	SAFCO KLEEN 21	SAFCO KLEEN 53	SAFCO KLEEN 60	SAFCO KLEEN 92	SAFCO KLEEN VF200
Density at 25°C (ISO 12 185)	752 Kg/m ³	755 Kg/m ³	780 Kg/m ³	772 Kg/m ³	874 Kg/m ³
Flashpoint (ISO 2719)	22°C	33°C	56°C	Non mesurable	2>170°C
Copper strip corrosion (NF M 07 015)	1a	1a	1a	1a	1a
KB Index (ASTM D 1133)	85	50	85	85	>100
Evaporating rate	10 min	6 min	42 min	15 min	Ne sèche pas
Use	To be used undiluted, at room temperature, with a cloth, a brush, in a fountain, by immersion	To be used undiluted, at room temperature, with a cloth, a brush, in a fountain, by immersion	To be used undiluted, at room temperature, with a cloth, a brush, in a fountain, by immersion	To be used undiluted, at room temperature, with a cloth or a brush	To be used undiluted, at room temperature or hot up to 80° C, with a cloth, a brush, in a fountain, by immersion, by spraying

MT PROTECT : THE MOTULTECH RANGE OF RUST PREVENTATIVES

The machined aluminum parts must then be protected from corrosion and staining before they are sent to the assembly plants: the MT Protect range allows to adapt the product to the production requirements: short-to-long-term protection, inter-operation or transport, indoor or outdoor under shelter. Formulated on the basis of the latest generation of anti-corrosion additives and deodorized solvents, this range meets

the requirements of performance, durability and hygiene & safety of operators. All solvent-based protection products in the range have a water-repellent action, which guarantees effective protection against corrosion. The choice of product will then be based on the requested protection time, the storage environment and / or transport of the part, the speed of drying of the protection product.

FEATURES	MT SOLV PROTECT	MT OIL PROTECT	MT STORE PROTECT	MT SHIP PROTECT
Viscosity at 40°C (ASTm D 445)	1.6 mm ² /s	23 mm ² /s	3 mm ² /s	1.6 mm ² /s
FlashPoint (ASTM D 92)	70°C	204°C	114°C	74°C
Film Thickness	0.5 µm	7 µm	2 µm	4.5 µm
Type of protective film	Dry	Oily	Waxy	Waxy
Salt spray cabinet (ASTM B 117)	>8h	>32h	>32h	>80h
Protection time	3 months indoor	12 months indoor 3 months outdoor under shelter	18 months indoor 3 to 6 months outdoor under shelter	24 months indoor 12 months outdoor under shelter

THE MOTULTECH OFFER

MotulTech is a global player in Industrial Lubricants. It brings to its customers high end products, skills and services. MotulTech offers performance and quality through very complementary product ranges.

APPLICATION

HYDRAULIC FLUIDS

SPINDLE OIL

SLIDEWAY OIL

GEAR DRIVE LUBRICANTS

COMPRESSOR OILS

CHAIN AND CONVEYOR LUBRICANTS

CUTTING/ SUPERFINISHING NEAT OILS

NEAT FORMING/ COLD FORGING OILS

HEAT TREATMENT OIL

SOLUBLE CUTTING FLUIDS

CLEANING & PROTECTION

ALUMINIUM HIGH PRESSURE DIE CASTING

ALUMINIUM EXTRUSION

GAMME DE PRODUITS / PRODUIT

RUBRIC

SPEED

SLID FILM

SUPRACO MPL

ALTERNA

IRIX HP

SUPRACO

CADREX

THERMIC

STABILIS

MT PROTECT

CASTING

STAG

RUBRIC CLEAN

SUPRASLIDE

SUPRAGEAR SY

VIS

PROFILINE

CENTER OIL

SAFKOOL

SAFCO KLEEN

PISTOCAST

RUBRIC BIO

SUPRAGEAR GL

BAR

TECH GREASE

SUPRACUT

UNIVERSELLE

BIOCOOL

SAFCONET

RUBRIC HFC

SUPRACUT EVO

LUBRILIS

PEOPLE

Everywhere in the world, MotulTech professional teams of lubrication are servicing industrial customers.

SERVICE

Advices, product monitoring, technical assistance for MotulTech customers.

R&D

Innovation drives MotulTech. With laboratories in the main industrial areas of the world, MotulTech finds new solutions for tomorrow's industry.

LOGISTIC

As an industrial supplier, MotulTech has to offer a perfect logistic to its customers. This is our commitment.

QUALITY

The MotulTech commitment for quality is certified by ISO 9001 and ISO TS16949. It allows MotulTech to guarantee Premium quality products all over the world.

MOTUL

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February 2018

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