

**Brugarolas**



Industrial lubricants



**METAL FORMING &  
CUTTING FLUIDS**

“A Global Supplier  
Since 1885”





### SHEET STAMPING, METALFORMING AND FORMING PROCESSES

#### SOLUBLE PRODUCTS FOR STEEL AND STAINLESS-STEEL STAMPING AND METALFORMING

PRODUCTS	VISCOSITY	DESCRIPTION
BESTRIL S	177	Stainless steel deep metalforming and stamping

#### EVAPORATING PRODUCTS, CONTAIN SOLVENTS

PRODUCTS	VISCOSITY	DESCRIPTION
BESPURB 60	-	Aluminum stamping
BESPRUB 70	-	Aluminum stamping

### COPPER WIRE DRAWING PRODUCTS

PRODUCTS	VISCOSITY	DESCRIPTION
BESTRIL 230	-	Copper wire-drawing, Medium and thin wires

### ALUMINIUM PROFILE CUTTING

PRODUCTS	VISCOSITY	DESCRIPTION
BESTRIL 244	10	Cutting oil for aluminium profiles, it does not stain in the thermal treatment of aging

### ALUMINUM AND ZINC DIE CASTING

PRODUCTS	VISCOSITY	DESCRIPTION
BESTRIL 1290 MOD	-	Water soluble synthetic releasing fluids, parts difficult to be released
BESTRIL 80 AG	320	Plunger lubricant, graphited
BESTRIL FSP-320	337	Plunger lubricant without graphite
BESTRIL FSP-1	-	Plunger lubricant, granulated wax, particle size 1 to 3 mm

### HIGH TECHNOLOGY NEAT CUTTING OILS

#### MACHINING PRODUCTS

PRODUCTS	VISCOSITY cSt, 40°C	MATERIAL			APPLICATION
		Steel	Aluminum	Brass	
BESCUT 23	18-21				Neat cutting oil for general machining in operations of medium severity. Contains EP additives.

### LOW ENVIRONMENTAL IMPACT PRODUCTS

BESCUT 148	20.5 -23				Neat cutting oil for High severity machining operations. Milling, turning, threading, grinding, etc.
BESCUT 149	35 - 40				Neat cutting oil for High severity machining operations. Turning, gear cutting hobbing machines, etc. Contains EP additives.

### HIGH PERFORMANACE LOW ENVIRONMENTAL IMPACT PRODUCTS

BESCUT 361	9 -11				Neat cutting oil for Grinding and sharpening of hard metal tools. Special for Walter sharpening machines. High flash point, it does evaporate and it does not form mist.
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MQL MACHINING PRODUCTS					
PRODUCTS	VISCOSITY cSt, 40°C	MATERIAL			APPLICATION
		Steel	Aluminum	Brass	
BESCUT 173	34 - 42				Synthetic fluid for machining by micro-pulverization & cutting.
BESCUT 177	40 - 48				Synthetic fluid for machining by micro-pulverization and cutting with belt and circular saws at high speeds.
BESCUT 188	30 - 35				Synthetic fluid for machining operations by spraying and cutting at high severe conditions. Contains EP additives.

SPECIAL PRODUCTS					
BESCUT E	2,5 - 2,7				Dielectric fluid for EDM operations. Special for high precision machines.
BESCUT INOX MATIC	150				Special product with special Extreme Pressure additives for drilling operations and hand tapping steels and stainless steels.
PULOIL 142	4,5 - 5,5				Polishing, lapping and grinding wheel, and honing abrasive belt

MACHINING PRODUCTS						
PRODUCTS	WATER HARDNESS HF	EMULSION ASPECT	MATERIALS			APPLICATIONS
			Steel	Aluminum	Brass	
BESAL 5	Up to 50	Milky				Mineral water emulsifiable cutting fluid. General machining. Good lubrication and anticorrosive protection

SPECIAL PRODUCTS						
BESAL 355	5 - 40	Opalescent white				Semi synthetic bacteriostatic water emulsifiable cutting fluid. Machining of medium severity operations. It does not ferment, thus obtaining long service life and stability.
BESAL 455	40 - 100	Opalescent				Semi synthetic bacteriostatic water emulsifiable cutting fluid. Machining of medium severity operations. It does not ferment, thus obtaining long service life and stability.

LOW ENVIRONMENTAL IMPACT PRODUCTS						
BIOSTATIC						
SERVOL 334	3 - 50	Opalescent				Semi synthetic emulsifiable cutting fluid, multifunctional, EP and biostatic. High severity machining. Particularly appropriate for high precision machining. long life expectancy.
SERVOL 533	10 - 40	Opalescent				Semi -synthetic multipurpose emulsifiable cutting fluid for severe mechanization with EP aditives, boro-free and no formaldehyde released. High severity machining. Particularly designed for Mapal tools. Long life expectancy.
SERVOL 510	Up to 30	Opalescent blue				Synthetic multipurpose emulsifiable cutting fluid for severe mechanization with EP aditives, boro-free and no formaldehyde released. High severity machining. Particularly appropriate for product unification of all materials. long life expectancy.
SERVOL 2	10 - 100	Transparent				Synthetic emulsifiable cutting fluid, multifunction, stable and E.P. Multifunctional synthetic fluid for severe operations machining and grinding and high precision finishes. Contains EP additives. Long life expectancy.

## CUTTING FLUIDS FOR METALWORKING

Our **BESCUT**, **SERCUT** and **PULOIL** ranges cover every need and they have a wide field of application, reducing strength and cutting temperatures. They increase cutting tools life expectancy providing an excellent surface finishing of the parts.

**SERCUT** products do not evaporate and do not form mist at the working area. They also have advantages in terms of product saving and mist removal.

**BESCUT** is our full range of pure cutting oils for all machining operations and grinding of special metals for all sorts of machines and operations.

**PULOIL** range includes special products for grinding and polishing operations which require low viscosity pure cutting oils.

## METALFORMING

**BESTRIL** range includes neat oils and soluble oils to be used as a neat product or water emulsified in plastic forming processes of metals (with no shaving removal) such as drawing, wire drawing, calibrating and similar processes involving all kind of metals.

**BESTRIL** products guarantee higher production efficiency since fewer parts will be broken and rejected. Besides this, the working parts involved will be less affected by wear.

**Brugarolas** researches, develops, manufactures and supplies lubricants for various industrial activities tested by the highest quality control systems worldwide, meeting the following ISO standards: IQNET ISO 9001, ISO-TS16949.



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