

工業用油 切削油及研磨油 Cutting and Grinding Oils



Innovative solutions for highest efficiency

BECHEM is the specialist in the field of cutting and non cutting metal working operations.

BECHEM develops, produces and monitors the application of metal working agents for most demanding machining operations such as broaching, deep drilling, cold heading or wire drawing, as well as multipurpose cutting oils and bio stable water miscible coolants for extreme requirements.

Regular exchange of experience and close cooperation between the group members greatly enhance each sector's individual R + D, which is above all designed to improve performance, help protect our environment and to increase efficiency.

Production underlies BECHEM's principle of quality first, which applies upon receipt of the raw materials: they are carefully checked, selected and, once they have been released for

production, they will be monitored at any single phase of production.

It is BECHEM's philosophy not just to recommend a suitable product but to offer individual solutions including professional assistance and advice, laboratory service, maintenance, environmental protection and information on how to correctly dispose waste emulsions. Efficient service and prompt supplies are self-evident.

Neat metalworking oils

Neat metalworking oils are optimized mixtures of mineral oils and additives which have especially been developed for high-performance metalworking processes. All BECHEM metalworking oils are free from organic chlorine.

When developing new coolants BECHEM puts main emphasis on:

- Highest performance
- Environmental protection
- Health and safety requirements

BECHEM neat metalworking oils are based on:

- Selected mineral oil fractions with very narrow boiling ranges
- Highly purified, almost PCA-free, base fluids and additives
- Low-odour and almost mist free base oils

Long experience in the field and intensive R + D helped us to translate the specific requirements of the market into practice and find the key to alternative solutions:

BECHEM additive-design means:

- Development of modern high-performance substances
- Intelligent combination of highly efficient ingredients
- \blacksquare Solutions specifically tailored to customers' requirements





Finishing 整修	BERUGRIND - S	FO- und HNO-series		
Grinding 研磨	SFO 107 HC	$V_{40} = 7 \text{ mm}^2/\text{s}^{-1}$	Hard metal grinding	
	SFO 110	$V_{40} = 10 \text{ mm}^2/\text{s}$	Tool grinding	
	SFO 122	V ₄₀ = 22 mm ² /s	Tool grinding	
Honing 搪磨	HNO 205	$V_{40} = 22 \text{ mm}^2/\text{s}$	Cylinder honing	
General cutting 一般切削	BERUCUT-se	ries		
High-performance cutting oils for and DIN 51517-T3).	universal machining of steel a	nd non-ferrous metals. Also suitable as l	hydraulic oils (fulfil DIN 51524-T2	
Turning微調, drilling鑽孔	SCO 122	$V_{40} = 22 \text{ mm}^2/\text{s}$	Steel, non-ferrous metals	
Turning, drilling, grinding	SCO 310	$V_{40} = 10 \text{ mm}^2/\text{s}$	Steel, precious steel	
	SCO 322 HC	$V_{40} = 22 \text{ mm}^2/\text{s}$	Steel, precious steel	
	SCO 332 HC	$V_{40} = 32 \text{ mm}^2/\text{s}$	Steel, precious steel, non-ferrous metals	
Turning, drilling, milling	SCO 446 UWS ²⁾	$V_{40} = 46 \text{ mm}^2/\text{s}$	Steel, precious steel	
Deep drilling 深度鑽孔	BERUCUT – 1	ΓBO-series		
Deep drilling oils for most deman	ding cutting operations, not su	itable for non-ferrous metals.		
Diameter 直徑< 2 mm	TBO 406	$V_{40} = 6 \text{ mm}^2/\text{s}$	Steel, precious steel	
ELB-, BTA-process	TBO 515 (496)	$V_{40} = 15 \text{ mm}^2/\text{s}$	Steel, precious steel	
ELB-, BTA-process	TBO 422	$V_{40} = 22 \text{ mm}^2/\text{s}$	Steel, precious steel	
Broaching 鑚孔	BERUCUT - RM	IO-series		
	tem, based on broaching oil, h	ydraulic oil and additive package to alw	ays guarantee highest process	
Vertical broaching垂直鑽孔	RMO 822	$V_{40} = 22 \text{ mm}^2/\text{s}$	Internal-external profiles	
	RMO 822 Package	$V_{40} = 16 \text{ mm}^2/\text{s}$	Internal-external profiles	
	RMO TC 22	$V_{40} = 22 \text{ mm}^2/\text{s}$	Ball tracks	
	RMO TC 18 Package	$V_{40} = 18 \text{ mm}^2/\text{s}$	Ball tracks	
Helical broaching螺旋鑽孔	RMO 35	$V_{40} = 35 \text{ mm}^2/\text{s}$	Gear cutting	
Multipurpose oils 多功能潤	滑油 BERUFC	DRM – HY-series	·	
High-performance multipurpose of	oils for most demanding cutting	g and forming operations. Suitable for hy	/draulic systems.	
	5022 HY	$V_{40} = 22 \text{ mm}^2/\text{s}$	$V_{40} = 22 \text{ mm}^2/\text{s}$	
	5032 HY	$V_{40} = 32 \text{ mm}^2/\text{s}$	$V_{40} = 32 \text{ mm}^2/\text{s}$	
	5046 HY	$V_{40} = 46 \text{ mm}^2/\text{s}$		
Spraylubes 微量冷卻潤滑劑	Lubricants for minimum quantity lubrication: MMS			
	Spraylub A 21 EV	$V_{40} = 5 \text{ mm}^2/\text{s}$	Cutting operations without any residues	
	Spraylub A 16	V ₄₀ = 10 mm ² /s	Al-processing (alcohol)	
	Spraylub A 20	V ₄₀ = 22 mm ² /s	Al-processing (alcohol)	
	Spraylub E 30	$V_{40} = 30 \text{ mm}^2/\text{s}$	Steel-processing (ester)	
	ALUCUT 20 ZF	$V_{40} = 40 \text{ mm}^2/\text{s}$	High performance aluminium	

 $^{^{1)}}V_{40}$ = Viscosity at 40°C, $^{2)}$ UWS = ester-based lubricant(脂類基礎油)