

Cutting and Grinding Oils





Non water-miscible coolants

BECHEM - Lubrication solutions for industry

As the oldest German manufacturer of industrial lubricants, BECHEM is one of the leading producers of high-quality special lubricants and metal working fluids today.

BECHEM products convince through innovative formulations in the most varied industrial applications – in machining and forming metal working processes, in coating technology and as lifetime lubricants in various technical components.

A strong network of distributors and several national and international production sites ensure that BECHEM products are readily available worldwide.

Tomorrow's technologies. Today.

PICTOGRAMS

APPLICATIONS







Tool production



Automotive industry



PROPERTIES

Extended tool life



Chlorine-free



Corrosion protection



Minimum quantity lubrication



Biodegradable

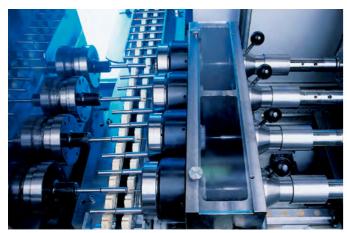


02

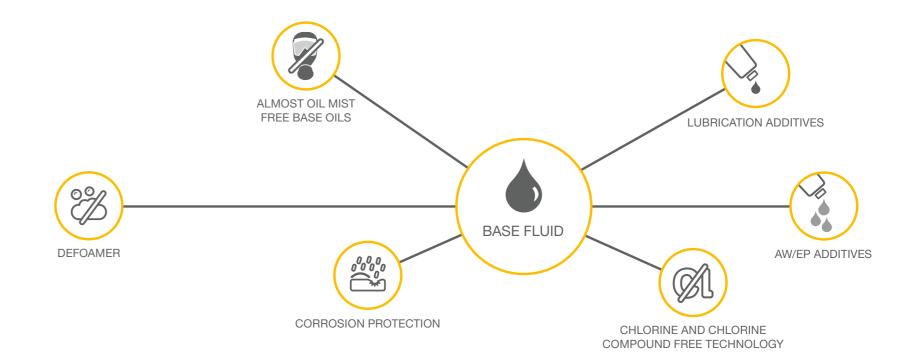
Maximum process reliability

BECHEM process fluids have proven their reliability in various processes. Based on innovative additive components, these fluids guarantee reliable and economic machining of standard alloyed steel, high-tensile special materials and nickel alloys. The BECHEM lubricant systems allow production of the most demanding products with excellent surface qualities from highly sensitive aluminium alloys and lightweight construction materials. We put great emphasis on the compatibility of the BECHEM products with materials and systems; we make this an integral part of our research right from the starting phase of the development of BECHEM high-performance lubricants.

The aim of BECHEM's development work is to provide economic products and special high performance solutions for a wide range of applications. Resource-saving ingredients, low-consumption formulations and high wear protection guarantee maximum economy and excellent machining results.



High-performance oils for demanding cutting operations



	PRODUCT	Male Jacobsed	Viecety Info	Flash point	oCi)	nance additives	And	Protegige .
	Berucut SFO 205	Cast iron, steel, non-ferrous metals	5.5	≥ 120	•	easy	Honing, grinding, finishing	Achieves excellent surface qualities
slic	6							
ling o	Berucut SFO 7 HC	Cast iron, steel, stainless steel, hard metal, titanium	7	≥ 160	•	easy	Honing, grinding, engraving	Very good surface qualities and very low evaporation tendency, high sludge carrying properties with low formation of residues
l grinc								
gand	Berucut 10	Cast iron, steel, non-ferrous metals, aluminium	9	≥ 150	•	easy	Turning, drilling, milling, grinding	Achieves excellent surface qualities, formation of built-up edges is efficiently prevented, also suitable as multipurpose oil for hydraulic, gear and circulation lubrication
Cutting and grinding oils	of ole							
O	Berucut SCO 310	Steel, stainless steel	12	≥ 148	••	easy	Turning, drilling, milling, grinding, deep drilling, thread cutting, tooth grinding	High-performance AW/EP-additives guarantee high load-carrying performance and reduced tool wear, support high cutting speeds, excellent rinsing capacity
	Ø1 👑 🚍							
	Berucut 15	Cast iron, steel	15	≥ 150	••	easy to	Turning, drilling, milling, grinding,	High-performance AW/EP-additives guarantee high load-carrying performance
	6 Ø ₩ %					medium	deep drilling, tooth grinding	and reduced tool wear, support high cutting speeds, excellent rinsing capacity, temperature resistant
	Berucut SCO 215	Steel, stainless steel	15	≥ 190	••	medium	Turning, drilling, milling, grinding, deep drilling, thread production, tooth grinding	High-performance AW/EP-additives guarantee high load-carrying performance and reduced tool wear, low evaporation tendency, very good rinsing capacity
	6 Ø ≅ ≘							
	Berucut SCO 415	Steel, stainless steel	15	≥ 190	••	medium	Turning, drilling, milling, grinding,	High-performance AW/EP-additives guarantee high load-carrying performance
	6 Ø ≅ ≘						deep drilling, thread production, tooth grinding	and reduced tool wear, low evaporation tendency, very good rinsing capacity
	Berucut 22	Cast iron, steel, non-ferrous metals, aluminium	22	≥ 200	•	easy	Turning, drilling, milling, grinding	Achieves excellent surface qualities, formation of built-up edges is efficiently prevented, also suitable as multipurpose oil for hydraulic, gear and circulation lubrication
	of M 🛎							
	Berucut SCO 22	Cast iron, steel	22	≥ 185	••	easy to medium	Turning, drilling, milling, grinding, deep drilling, tooth grinding	High-performance AW/EP-additives guarantee high load-carrying performance and reduced tool wear, support high cutting speeds, excellent rinsing capacity, temperature resistant
	6 Ø ₩ %							
	Berucut SCO 322 HC	Steel, titanium, stainless steel, non-ferrous metals	23	≥ 180	••	medium	Turning, drilling, milling, grinding, deep drilling, thread production, tooth grinding	High-performance AW/EP-additives guarantee high load-carrying performance and reduced tool wear, support high cutting speeds, excellent rinsing capacity, temperature resistant
	of							
	Berucut 32	Cast iron, steel, non-ferrous	31	≥ 216	•	easy	Turning, drilling, milling	Achieves excellent surface qualities, formation of built-up edges is efficiently
	Øl 🛎	metals, aluminium						prevented, also suitable as multipurpose oil for hydraulic, gear and circulation lubrication
	Beruform 5032 D	Steel, non-ferrous metals	31	≥ 200	•	easy	Turning, drilling, milling	Multifunctional oil suitable for metal working processes and as hydraulic
Multi- func- tional oil	Ø							and machine oil, synergistic effects in case of leakages, excellent seal compatibility, good foam behaviour
							All indication	s and values correspond to latest knowledge and are reference values only. They do not represent any product specification

All indications and values correspond to latest knowledge and are reference values only. They do not represent any product specification.

• = low ... • • • • = very high

Successful even under the most severe conditions

BECHEM process oils of the Berucut series guarantee the best machining results even under the most severe conditions. Grinding processes exposed to high thermal stress, deep drilling operations in special materials, broaching processes with maximum feed rates, as well as optimised minimum quantity lubrication meet all challenges in serial production and always fulfil the highest expectations. The special BECHEM formulations set the standard in this industry.

BECHEM is a pioneer for innovations in national and international research projects. Our specialists in research, development and application technology create benefits and take responsibilities for processes that are exposed to permanent changes. BECHEM convinces as a strong partner with extraordinary expertise and product innovations.





BECHEM coolant lubricants for easy to demanding machining operations

	PRODUCT	Hate in the state of the state	Viscos	ity [ring] si	Point (°C)	Cuting opers	pione Prodest lichione	P. Colfedities
Broaching oils	Berucut RMO TC 18 Package	Steel, stainless steel	18	≥ 160	••••		Vertical broaching (ball tracks)	Additive package for the combination e.g. with Berucut RMO TC 22, alternative to chlorine-containing products
	Berucut RMO TC 22	Steel, stainless steel	22	≥ 160	•••	medium	Fast broaching, sawing, thread production	High-performance AW/EP-additives for high load-carrying capacity and high cutting performance, good rinsing capacity
ш	Berucut RMO 244	Steel, stainless steel	22	≥ 150	•••	demanding	Vertical broaching, sawing, thread production, cold massive forming	High-performance AW/EP-additives for high load-carrying capacity and high cutting performance, good rinsing capacity
	Berucut RMO 822-8	Steel, stainless steel	29	≥ 160	••••	demanding	Fast broaching, sawing, thread production, cold massive forming	High-performance AW/EP-additives for high load-carrying capacity and high cutting performance, good rinsing capacity, alternative to chlorine-containing products
	Berucut RMO 35 ZF	Steel, stainless steel	35	≥ 150	••••	demanding	Broaching (gears), broaching of internal and external profiles, sawing, thread production	High-performance AW/EP-additives for high load-carrying capacity and high cutting performance, good rinsing capacity, low evaporation tendency
Deep drilling oils	Berucut TBO 710	Steel, stainless steel	10	≥ 165	••••	demanding	All types of deep drilling	Highest cutting performance and powerful additive package for excellent surfaces, formation of built-up edges is efficiently prevented, excellent cooling properties
	Berucut TBO 315 ZF	Steel, stainless steel	15	≥ 145	•••	medium to demanding	All types of deep drilling, peeling, rolling, burnishing	Highest cutting performance and powerful additive package for excellent surfaces, formation of built-up edges is efficiently prevented, excellent cooling properties, supports demanding machining processes where cross holes are no problem
	Berucut TBO 315	Steel, stainless steel	16	≥ 150	••	medium	All types of deep drilling, peeling, rolling, burnishing	Best cutting performance and powerful additive package for excellent surfaces, prevention of built-up edges, good cooling properties, for demanding machining processes where cross holes are no problem, for steels with a tensile strength of up to 800 N/mm ²
	Berucut TBO 622	Steel, stainless steel	22	≥ 155	••••	demanding	All types of deep drilling, broaching, thread production	Best cutting performance and powerful additive package for excellent surfaces, prevention of built-up edges, good cooling properties, for demanding machining processes where cross holes are no problem, for steels and nickel alloys with a tensile strength of up to 1300 N/mm ²
	Berucut TBO 422	Steel, stainless steel, aluminium, non-ferrous metals	23	≥ 170	•••	medium to demanding	Deep drilling, peeling, rollling, burnishing, broaching, thread production	Highest cutting performance and powerful additive package for excellent surfaces, suitable for steels, aluminium and nickel alloys with a tensile strength of up to 800 N/mm ²
Minimum quantity lubricar	Berucut MQL-AP 20	Steel, stainless steel, aluminium, non-ferrous metals	27	≥ 180	••	medium	Turning, drilling, milling, broaching, sawing, punching, bending, rolling, pressing, thread production	Synthetic coolant, contains PAO, low evaporation tendency
	Berucut MQL-E 32	Steel, stainless steel, aluminium, non-ferrous metals	35	≥ 230	••	medium	Turning, drilling, milling, broaching, sawing, punching, bending, rolling, pressing, thread production	Non water miscible coolant, readily biodegradable
	Berucut 20 ZF	Steel, stainless steel, aluminium, non-ferrous metals	35	≥ 140	•••	demanding	Turning, drilling, milling, broaching, sawing, punching, bending, rolling, pressing, thread production	Non water miscible coolant, readily biodegradable
	Berucut SCO 446 ECO	Steel, stainless steel, aluminium, non-ferrous metals	41	≥ 200	••	medium	Turning, milling, deep drilling, sawing, rolling, thread production, tooth grinding	Synthetic coolant based on readily biodegradable base oils

All indications and values correspond to latest knowledge and are reference values only. They do not represent any product specification

• = low ... • • • • = verv hid

07

Lubrication Solutions for Industry

