



Solutions for Driving
Innovation in Automotive
and Industrial Fluids

Our expertise – your success.

Our strengths lie in our knowledge of the industry, based on many years of experience, and our proximity to our customers.

BTC belongs to the world's leading chemical group, BASF – We create chemistry.

BTC is BASF's European sales organization for speciality chemical distribution. The company's eleven regional sales offices supply customers from numerous industry sectors all over Europe with about 6 000 high-quality chemicals and specialities, including engine coolants, brake fluids and additives for petrol and diesel fuels which are precisely formulated to automotive requirements.

Making sure that our customers benefit from a single contact person and one-stop service, we develop tailor-made solutions together with them. They also profit from the unique advantages of the BASF Verbund in terms of logistics and product availability and from the individual service provided by our local contacts.

Speciality chemicals for protection of brakes, engines and cooling systems.

We are recognised as a reliable supplier to the automobile industry with BASF's long history of developing products that are designed to fulfil the highest standards of quality.

At BTC Europe, we offer BASF products for use in cooling systems of motor vehicles and industrial applications for example for "thermal power stations" to protect them from corrosion, freezing and overheating. Products for use in brake fluids ensure that the brakes function effectively and reliably. Our hydraulic engine mountings help to make driving a pleasant, stress-free experience.

BTC – your expert for the Lubricant and Automotive Fluid industry.

Our extensive technological expertise and broad range of chemicals allow the design of lubricants and metal working fluids. Additionally, Finished Lubes ensure first-class results in terms of gear wear and seal life, beside others and are ready to use fluids and providing key OEM approvals. We help our customer meet the specific

trend in designing lubricants and metal working fluids by offering a versatile portfolio of chemical intermediates to match the market needs for the different end-use application i.e. gear oils, compressor oils, hydraulic fluids, heat-transfer liquids, antifriction coating and many others.



Anti Friction Coating



Hydraulic



Gear Oil



Transmission Oils



Metalworking



Automotive Fluids

Our portfolio of base stocks and additives for lubricants and metal working fluids



		Base products for lubricants & metal working fluids				Additives for lubricants & metal working fluids										
Product class / Application		Finished Lubes	Esters	Polyalkylene glycols (PAGs)	Foam Control Agents	Additive Packages (ashless lubricants)	Stabilisator (oxidation & light)	Dispersant	Viscosity Modifiers	Deposit Control Agents	Friction Modifiers	Rust and Corrosion Inhibitors	Pour Point Depressant	Emulsifier	Polymers solvent	Polymers water based
Transportation	Transmission Oils	•	•	•	•	•	•		•	•	•	•	•			
	2 Stroke Oil		•	•			•	•	•	•	•	•	•			
	4 Stroke Oil		•	•			•	•	•	•	•	•	•			
Industrial	Industrial Gear Oils		•	•	•		•		•	•	•	•	•			
	Hydraulic Fluids		•	•	•	•	•		•	•	•	•	•			
	Compressor Oils	•	•	•	•	•	•	•	•	•	•	•	•			
	Turbine Lubricants		•		•	•	•		•	•	•	•	•			
	Chain Lubricants		•		•		•		•	•	•	•	•			
	Greases		•				•	•	•	•	•	•	•			
	Textile Lubricant		•	•	•		•	•	•	•	•	•				
	Anti Friction Coating (solid)							•	•		•			•	•	•
	Food Grade Lubricants	•	•	•			•		•	•	•	•	•			
Metalworking Fluids	Water Miscible Fluids		•	•	•		•		•	•	•	•		•	•	•
	Neat Oil for Metal Working Fluid		•	•	•		•		•	•	•	•	•			
	Quenching			•			•		•	•		•		•	•	•
	Heat Transfer Fluids		•	•			•		•	•	•	•		•	•	•
	Steel Rolling Oils		•	•	•		•		•	•	•	•		•	•	•
	Aluminium Processing		•		•		•		•	•	•	•		•	•	•

Additive Packages for Ashless Lubricants

Ready-to-use mixtures for every purpose. The right lubricant plays a key role in optimizing the efficiency of industrial plants and extending maintenance intervals, as it allows moving parts to run smoothly without wear. Our broad range of additive packages fulfils or even exceeds the important international industrial and OEM specifications. The mixtures can be used with the basestock.



Key Performance Benefits

One considerable advantage of all additive mixtures is that they are free from ash. That lowers the risk of deposits, which are a main cause of mechanical wear. The additive packages contain powerful antioxidants, corrosion inhibitors and metal deactivators for the formulation of lubricants. In addition specific approvals are available. Thus they are ready-to-use.

Effects / Solutions	Chemistry	Brand
Turbine Packages	Additive blend	Irgapac®
Hydraulic Fluid Packages	Additive blend	Irgapac®
Rust / Oxidation	Additive blend	Irgapac®
Gear Packages	Additive blend	Irgapac®
Multifunctional Additive Package	Additive blend	Irgapac®

Finished Lubricants

Finished Lubricants ensure first-class results in terms of gear wear, seal life, fluid oxidation and oil life. These synthetic lubricants also help to improve energy efficiency, which reduces fuel consumption and decrease CO² emissions. With their renewable content, they fall into today's class of more carbon-neutral, sustainable technologies.



Key Performance Benefits

Ready to use lubricants for transmission fluids, axle lubricants, industrial gear oils, hydraulic fluids, industrial compressor lubricants and refrigeration compressor lubricants. Especially the automotive industry used synthetic driveline fluids, BTC offers key OEM approvals.

Effects / Solutions	Chemistry / Base Stocks	Brand
Finished Lubes	Polyalkylene glycols (PAGs), Polyalphaolefines (PAOs)	Plurasafe®, Emgard®

Amines for Metal Working Fluids

Due to their strong performance in pH-buffering and anticorrosion properties, the amines enhance both the stability and efficiency of metal working fluids.



Key Performance Benefits

Broad range of amines either of tertiary, secondary or primary structure which enables developer multiple combinations for customized solutions. In terms of alkaline reserve, amines are very effective, which also enhance microbial resistance.

Effects / Solutions	Chemistry
Hydrophilic Amines	Triethanolamine (TEAO), Triisopropanolamine (TIPOA), Methyl-diethanolamine (MDEO), Methyl-diisopropanolamine (MDIPOA), Butyl-diethanolamine (BDEOA), Dimethylaminoethoxyethanol (DMAEE), Dimethylethanolamine (DMEOA), Monoethanolamine (MEOA), 2-(2-Aminoethoxy)ethanol (ADG), Monoisopropanolamine (MIPOA), N, N-W (DMIPOA), Diethylethanolamine (DEEOA)
Hydrophobic Amines	Octyl-diethanolamine (ODEOA), N,N-Dibutylethanolamine (DBEOA), Dicyclohexylamine (DCHA)

Automotive Fluids

Ever since the patent of GLYSANTIN® in 1929, our automotive fluids have continuously evolved to meet and exceed the developing market needs. Dedicated product families provide market-leading solutions for every application.



Key Performance Benefits

High Performance Fluids ranging from ECO solutions for future sustainability to dedicated solutions for electrified vehicles, creating a strong base for current and future mobility concepts.

	Coolants	Brake Fluids	Specialty Fluids
Base Fluids	GLYSANTIN®, Basin®, Glysacorr® Monoethylene glycole (MEG) / Monopropylene glycole (MPG)	HYDRAULAN® Glycol ethers, Borate ester (only DOT 4/5.1), Glycols and / or polyglycols	
Additives	Coolants super concentrate		AdBlue®
Hydraulic Fluids			Glykosafe®
Heat Transfer Fluids			Glythermin®

Anti-Friction-Coating (solid / dry lubricant)

Solid lubricants fill a special niche in situations where the use of liquid lubricants is impractical to reduce wear. They are composed of a solid lubricant, a binder and additives which forms a thin film and reduces friction and wear of contacting surfaces in relative motion.

Solid Lubricant Formulation

- Solvent (Benzene / Water)
- Binder (Synthetic Resins)
- Additives (Wetting, Corrosion Inhibition, Dispersing Agents)
- Solid Lubricant (MoS² / PTFE / Graphite / Others)



Key Performance Benefits

Common solid lubricants include the lamellar solids MoS₂, graphite, poly(tetrafluor-ethylene)-PTFE, but hydrogenated castor oil have also been used. BTC offers beside solid native waxes, and synthetical polyethylene waxes, additives and binders.

Effects / Solutions	Chemistry	Brand
Binder	Polymer dispersion (water or solvent based)	Acronal [®] , Joncryl [®] , Laromin [®] , Poligen [®]
Additives		Efka [®] , Hydropalat [®] , Disponil [®] , Sokalan [®] , Lupasol [®]
Solid Lubricants	High molecular polyisobutene (HM PIB), Hydrogenated castor oil, Polyethylene polymer	Oppanol [®] N, Cutina [®] , Luwax [®]

Base Stocks

Synthetic lubricant base stocks for lubricants are also widely used in various applications because of their characteristics and exceptional performance also in terms of biodegradability and favorable human and environmental toxicity.

Lubricant Formulation

- Mineral Oil based Base Stocks
- Synthetic Base Stocks:
GTL, PAO, Esters, Polyalkylene Glycols



Key Performance Benefits

Esters are best in class thermal and oxidative stable solutions as base stocks for lubricants. Esters with high renewable content as well as excellent biodegradability and toxicity profile for use in environmentally sensitive areas are also available. PAGs provide excellent anti-wear properties with low toxicity and are readily biodegradable grades and provide micro pitting resistance. LM PIB are of high purity, provides high thickening efficiency with high shear stability. Broad viscosity range available.

Effects / Solutions	Chemistry	Brand
Base Stocks	Complex / Polyol esters (saturated and unsaturated), Methyl esters, Mono esters, Diesters	Synative [®] ES
	Water soluble polyalkylene glycols (PAGs)	Breox [®] 50 A, Plurasafe [®] WS, Breox [®] 60 D
	Water insoluble PAGs	Breox [®] B, Plurasafe [®] WI
	High viscosity PAGs	Breox [®] 75, Breox [®] TB, Pluracol [®] V
	Low molecular weight polyisobuten (LM PIB) Medium molecular weight polyisobuten (MM PIB)	Glissopal [®] , Oppanol [®] B

Lubricant & Metal Working fluid additives

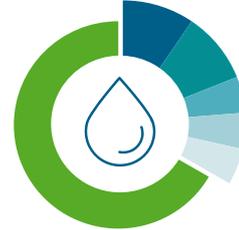
In addition to base stocks versatile additives are needed to adjust the final performance of the lubricant or the metal working fluid product.

Key Performance Benefits

Broad range of additives for high-quality lubricants or metal working fluids. Based on excellent R&D capability best product profiles are generated to meet individual needs. Global production footprint for supply security.

Lubricant Formulation

- Viscosity Modifiers
- Antioxidants
- Anti-Wear Additives
- Metal Deactivators, Corrosion Inhibitors
- Others (Biocides, Emulsifiers)

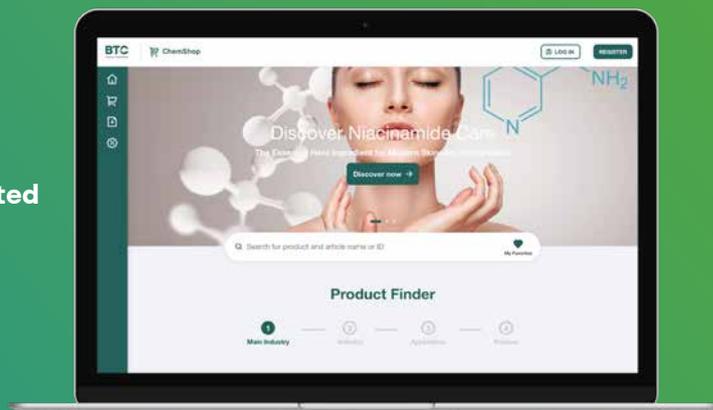


Effects / Solutions	Chemistry	Brand
Surfactants and Emulsifier	Fatty alcohol ethoxylates, Fatty alcohol alkoxyates	Synative® AC, Synative X®, Lutensol®, Dehypon®, Degressal®, Dehydol®, Plurafac®, Eumulgin®
Lubricity Improver	EO/PO Block co-polymers, Fatty alcohol, Polyethylene glycole, Polypropylene glycole	Synative® PE & RPE, Lanette®, Pluriol®, Synative® ES
Foam Inhibitors / Foam Control Agents	Mineral / Native-oil based, Fatty alcohol alkoxyates	Synative® AC, Plurafac®, Degressal®, Dehypon®
Metal Deactivators		Irgamet®
Rust and Corrosion Inhibitors		Irgacor® L, Korantin®, Sarkosyl®, Amine O
Coupling Agents / Solubilizers		Synative® AL, Lanette®, Texapon®, Lutensit®
Antiwear Additives		Irgalube®
Deposit Control Agents	Amino carboxylates, Polyacrylates, Polyethylene imine	Trilon®, Sokalan® PA, Sokalan® CP, Lupasol®
Pour Point Depressant / Viscosity / Index Improver / Viscosity Modifier	Polymethacrylate, Polyisobuten (PIB)	Irgaflo®, Glissopal®, Oppanol® B
Other Rheology / Viscosity Modifier	Polyvinylpyrrolidon, Fatty acid alkanolamides, Butylglycole, Butyldiglycole, Butyltriglycole	Sokalan®, Luviskol®, Comperlan®
Antioxidants		Irganox®
Stabilizers (UV stabilizers)		Tinuvin®
Biocide (PT 6 / PT 12 / PT 13)		Protectol®
Film Forming Agents	Polymer dispersion (water or solvent based), Polyvinylpyrrolidon	Poligen®, Lugalvan®, Acronal®, Joncryl®, Sokalan® K range



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