

dialog

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Editorial

Siebert will also be at your side in future as an innovative and reliable partner. This is guaranteed by our employees, with whom we recently celebrated 140 years of our company's existence.

We are convinced that even the most advanced companies can only deliver high-quality and innovative products to their customers if they fulfil their responsi-

bilities toward their own employees. This is precisely why we have dedicated a unique photo album entitled "Passion" to our employees. With our passion and commitment, we will also be a long-term and reliable partner for you!

Dr. Max Reiners

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News

**Longtime Grease 7049 and High Temperature Grease 5654
Greases from Siebert for heavily loaded equipment and high capacity excavators**

They are compatible with elastomers, are distinguished through their very good pumpability, and are approved by the leading manufacturer of large rolling bearings, ThyssenKrupp Rothe Erde: The greases Longtime Grease 7049 and High Temperature Grease 5654

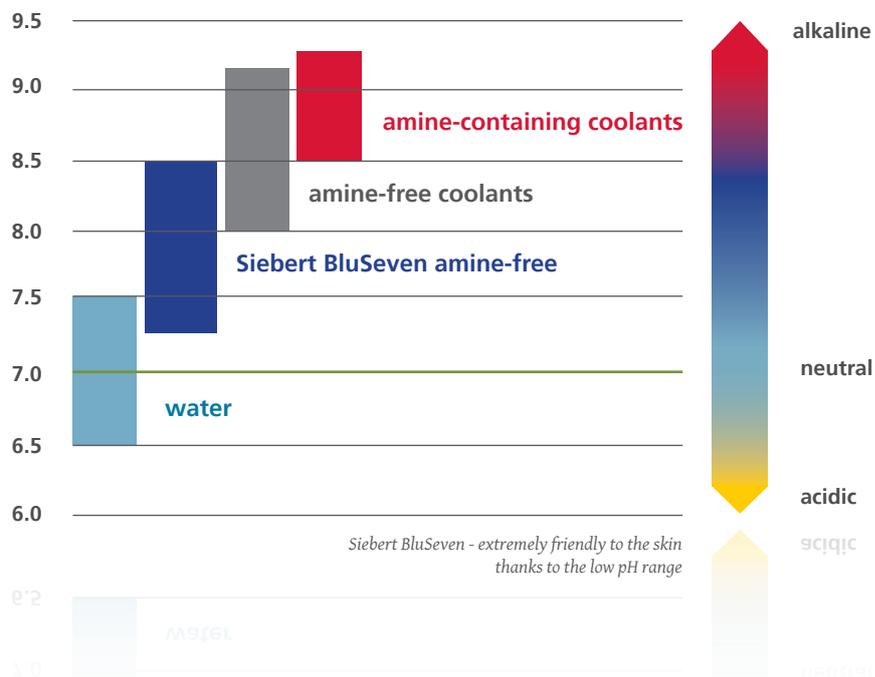
The Longtime Grease 7049 is a special grease based on a semi-synthetic, high viscosity base oil with graphite additive. Due to its excellent adhesion, the penetration of water and dust can be almost completely prevented. Because of its high base oil viscosity and the solid lubricants, the Longtime Grease 7049 is able to maintain its protective film even under sudden or oscillating loads. Due to its properties, the High Temperature Grease 5654 is especially useful at low temperatures of up to -40 °C. But, when in use, also the excellent pressure resistance and very good wear protection distinguish the lithium complex soap lubricating grease based on a synthetic base oil.



Siebert BluSeven – pH value is an uncritical variable

Nothing is as it seems! While it was previously assumed that amine and boric acid-free products could not be equally powerful, in recent years Rhenus Lub has proven time and again that exactly the opposite is the case. A current example is the water-miscible coolant BluSeven from Siebert GmbH.

The intelligently structured product falls into the premium class of amine and boric acid-free coolantsST and, with its typical properties to prevent skin irritation, places health in the foreground. But performance is crucial, and across the entire range. So, especially through its technical properties, BluSeven proves to be convincing - and without nitrosation potential or the risk of complex formation between heavy metals and amines.



In plain language

Be it for cutting aluminium, cast iron, high alloy steels or other materials, the requirements on a demanding coolant are clearly defined: high flushing capacity, long-term stability and low volume loss. All this at an optimum pH value. At this point, intelligent additives come into play. Through a special formula, the pH value is guaranteed to level off at a non-critical level. The coolant thus has the characteristics which make a truly premium product. Chemistry graduate, Stephan Klaue, product manager at Siebert: "BluSeven boasts optimal dispersity with good flushing behaviour and corrosion protection. The resulting product stability ensures consistent machining performance, sustainably ensures the process and increases productivity. This is crucial for use on-site, and all this with a guaranteed non-critical pH value". See for yourself the 4th generation of this unique coolant - for a stable and truly trouble-free machining process.



Coolants

Strong trio for more performance and ecology

A powerful trio - the innovative ester-based grinding and cutting oils 6810, 7130 and 7128. In this way, Siebert turns economic efficiency and environmental protection into a common denominator for their trading partners. The low-emission multi-talent of the latest generation guarantees top performance in the different uses. Experience shows: Service lives are prolonged, lubricant consumption is reduced and throughput is increased.

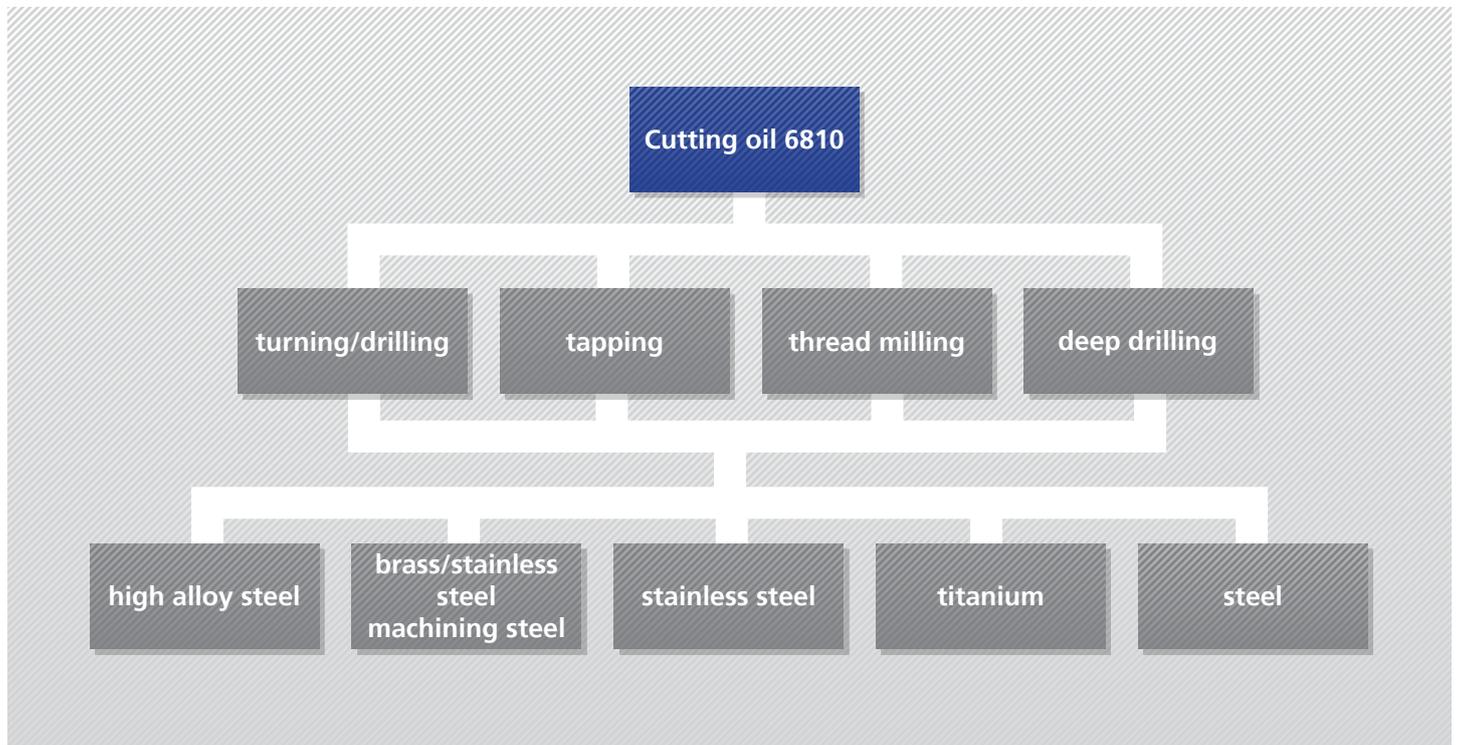
With a precisely selected use of additives and coordinated viscosities of 6, 12 and 22 mm/s, the cutting oils 6810, 7130 and 7128 enable high performance in a broad range of machining - whether it be for the normal or heavy-duty cutting of high alloy steels, titanium and Inconel, or for demanding turning and milling operations. This reduces the many varieties in the company - and thus the costs! Siebert has developed a particularly environmentally friendly formula for the new generation of products. The high-perfor-

Process costs compared, using an example calculation

	Conventional machining oil	Cutting oil 6810
Consumption (l)	1,000	1,000
Costs/litre (€)	2.00	4.00
Costs oil (€)	2,000	4,000
Tool costs (€) (ø 7.5-fold compared to oil)	15,000	10,000 (Cost reduction of 30% - 50%)
Process costs (€)	17,000	14,000
Cost saving (%)		18

mance oils, based on renewable raw materials, meet the highest health and safety requirements. They are free from mineral oils, chlorine and heavy metals, such as

lead, zinc and barium. In accordance with the current and future (from 2015) EC directives and hazardous material regulations, there is no labelling requirement.



Application range of cutting oil 6810

Safe run for Europe's railways - with special greases from Siebert

Rain, frost, scorching heat, high pressures and high speeds - in rail transport, the correct choice of lubricant under the harshest conditions decides on safety and reliability. Siebert offers their customers a broad range of special greases, which are approved for use in rail transport, such as for wheel bearings, tooth wheels, buffers, switches or signalling systems.

The organic special grease 4881 is new in the industry-specific product range of Siebert GmbH. The innovative lubricant based on inorganic thickeners can be used reliably in a temperature range of -30 to +80 °C. It was specially developed for the lubrication of buffer heads. The lithium greases, 4907 and 4910 - both organic switch lubricants - are resistant to erosion and are also readily biodegradable. Thanks to the combination of high-performance and environmental compatibility, they optimally meet the high switch lubri-

cation requirements of train operators. The high-temperature grease 5608 is used everywhere, where heavily loaded rolling bearings need to function reliably. Thanks to a highly-effective composition of additives and good adhesion, they extend the lifetime of wheelset bearings.

As special greases for lubricating wheel flanges on wheels and switches, the organic flow grease EP 4917 and organic wheel flange lubricant 4909 keep trains in Germany and abroad on the right track. Pneumatic doors of modern trains can be opened silently and quickly because they are lubricated with the universal grease EP 4685 and the calcium special low-temperature greases EP 4938 and EP 4930 from Siebert.

As a partner of many railroad system operators, Siebert is guaranteed to have the right solution for every challenge.





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