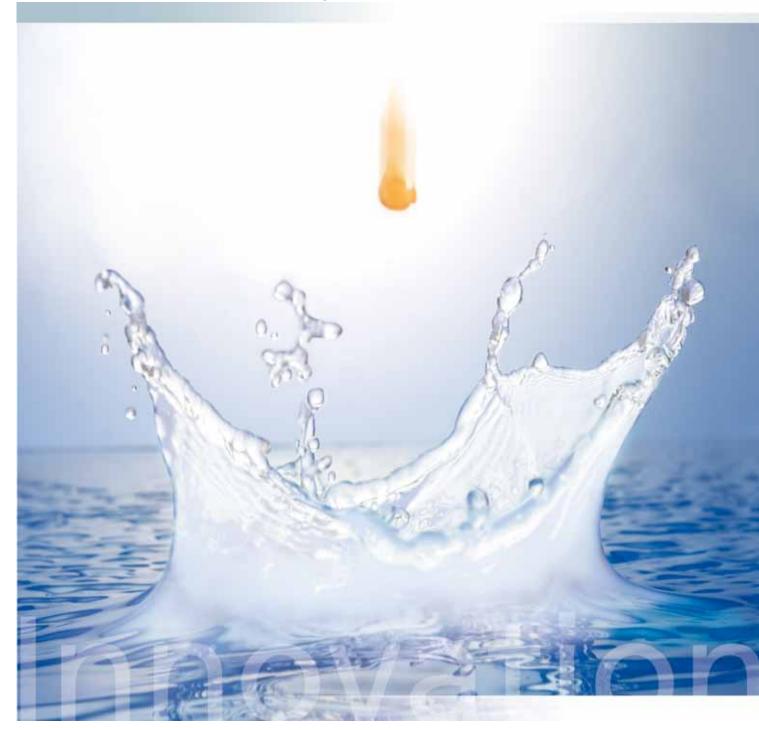


## AquaTec® Water-soluble products



### King of Coolants



# Superior fluids for all your applications



Dr. Manfred Storr Managing director

When Carl Christian Held started production of machine oils and greases in 1887, he laid the foundation stone for a medium-sized company that over the past decades has established itself as a specialist in the lubricants sector. oelheld GmbH has existed in its present form since 1989 and has been managed by Dr. Storr since 1973.

Innovative Fluid management and constant product development and quality assurance are the key to the success of our products.

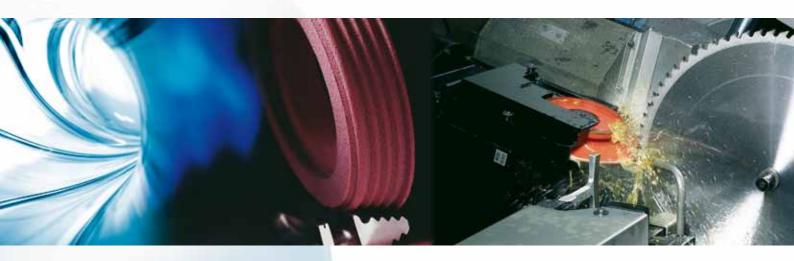
Numerous customers, machine manufacturers and last but not least national and international universities helped us to develop high quality dielectric fluids and powerful grinding fluids for EDM and grinding applications. The well known disadvantages with water-soluble metalworking fluids (corrosion in machines and work pieces, sticky residues in machines, low tool life, fungi and bacteria development, etc.) had been for Dr.Storr and his research and development department the motivation to break new ground and to develop new products, that guarantee that most of the well known disadvantages will be a thing of the past.

With the new designed product line AquaTec® we are able to offer you a product that is solving most of the above mentioned disadvantages, is elevating your process stability and is reducing your ongoing costs at the same time.

#### **Human Technology**

- Human technology is not just a trademark at oelheld GmbH it is a guiding principle. Low
  risk potential as well as environmental safety of the products and the application are most
  important for us.
- Following the principle we develop fluids that are best-suited for the application of our customers but also provide the best possible health and environmental aspects. Therefore our production plant is based on special sealed floors and equipped with the latest blending technology which provides additional safety.
- Human Technology for Man, Environment and Machines our contribution toward a better future!

### AquaTec® The benefits



### AquaTec® - Your benefits -

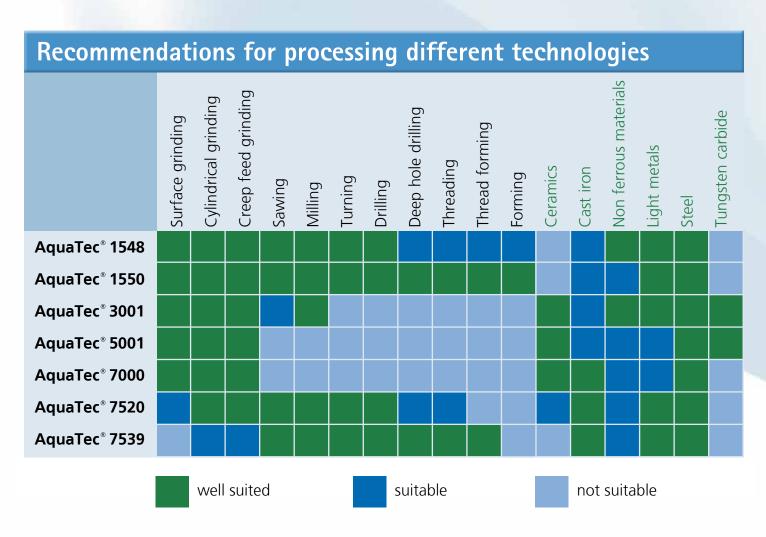
- Extreme long life without use of additional additives
- Reduced coolant maintenance
- No foam problems
- Universal use possible on single and centralised filtration systems
- High cleaning efficiency
- Low air pollution
- Good corrosion protection
- Improved tool life
- Better surface finish

### AquaTec® - Your health benefits -

- AguaTec® creates low mist levels
- AquaTec® is dermatologically approved
- AquaTec® provides superior stability for long sump life
- AquaTec® contains no heavy metals
- AquaTec® meets all requirements according REACH

### AquaTec® Applications





### AquaTec® The product range

Watermixable coolants		
AquaTec® 1548  • Semi synthetic watermixable coolant  • micro-emulsion with low odour  • very low foaming  • free of boron and amines  • skin friendly low pH value	<b>Dilution rate</b> Regular machining Heavy duty maching	6 % 8 %
<ul> <li>especially designed to machine nonferrous materials, like brass and other copper alloys</li> <li>Materials: all ferrous and non-ferrous materials</li> </ul>	Refractometer factor	1,1
AquaTec® 1550	Dilution rate	
<ul> <li>Semi synthetic watermixable coolant</li> </ul>	Regular machining	6 %
<ul> <li>micro-emulsion with low odour</li> </ul>	Heavy duty maching	8 %
<ul><li>very low foaming</li></ul>		
free of boron and amines		
• skin friendly low pH value		
• very low consumption	Defre stemester footer	1.0
Materials: all aluminium and steel alloys	Refractometer factor	1,0
AquaTec® 3001	Dilution rate	
synthetic watermixable coolant	Steel, non ferrous materials	5,
<ul> <li>transparent fluid with high lubricity</li> </ul>	tungsten carbide	3-5 %
<ul><li>free of amines</li></ul>	Cast Iron 6 %	
<ul> <li>mild towards the operators skin</li> </ul>	Milling, turning:	6 %
<ul> <li>low odour</li> </ul>		
good flushing and cleaning properties		
• excellent surface finish	D ( )	4.0
<ul> <li>Materials: all ferrous and non-ferrous materials</li> </ul>	Refractometer factor	1,0

### AquaTec® The product range

Watermixable coolants		
AquaTec® 5001  • synthetic watermixable coolant  • transparent, very low foaming fluid  • very resistance against bacteria and fungi  • low odour  • lowest possible cobalt leaching  • good flushing and cleaning properties	<b>Dilution rate</b> Grinding Milling and turning:	4 % 4 %
<ul><li>especially designed for grinding tungsten carbide</li><li>Materials: all ferrous and non-ferrous materials</li></ul>	Refractometer factor	2,1
AquaTec® 7000	Dilution rate	
<ul> <li>synthetic watermixable coolant</li> <li>transparent fluid with low odour</li> <li>very resistant against bacteria and fungi</li> <li>good flushing and cleaning properties</li> <li>very low foaming</li> </ul>	Grinding	4 %
Materials: steel and cast iron	Refractometer factor	1,9
AquaTec® 7520	Dilution rate	
Semi synthetic watermixable coolant	Grinding	4 %
<ul><li>micro-emulsion with low odour</li><li>universal coolant for general machining</li><li>very low foaming</li></ul>	Milling, turning, drilling Sawing, threading	6 % 7 %
<ul> <li>Materials: aluminium, steel and cast iron</li> </ul>	Refractometer factor	2,1

### Watermixable coolants

### AquaTec® 7539

- Semi synthetic watermixable coolant
- micro-emulsion with low odour
- high performance coolant with extreme pressure additives
- suitable for almost all applications
- very low foaming
- Materials: steel, stainless steel, cast iron and aluminium

#### **Dilution rate**

Grinding	5 %
Milling, turning, drilling	5 %
Sawing, threading	6 %

Refractometer factor 1,4







#### High-tech products for machines - worldwide!

oelheld GmbH is not only represented with its own sales offices and production plants in France, Great Britain and the USA, but also has various representatives in most countries.



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- ThailandUkraine
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- White Russia



Human Technology for man, environment and machines



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