



RUST AND CORROSION PROTECTION FLUIDS

High-Tech Products for Protection and Conservation.

QUALITY & PERFORMANCE



Water Displacing Fluids (Dewatering Fluids)

Water displacing and dewatering fluids based on mostly aromatic free solvents, which quickly and effectively displace water. After removing the water from the surface, the solvent evaporates, leaving a clean dry surface. The addition of an ash free anti corrosion additive contributes to the short term corrosion protection of DF 2 and DF 3. DF 1, is water displacing but has no additional corrosion protection package.

Advantages:

- Easy to use, suitable for most processes
- Integrated in the cleaning process, reduced exposure of the conservation bath.
- No water stains in the drainage of sensitive surfaces, eg: polished or electroplated coated parts.
- Recoating is possible

Application:

Most effective application is immersion tank with a sloping floor and dirt or water stopcock. For post process treatment of parts machined with water based coolants or washed with aqueous cleaners. May also be sprayed.

Water Displacing Rust Prevention Fluids with Film Formers

The base oil is hydrocarbon based solvents, similar to dewatering fluids. The rust protection fluids contain specific additive combinations to effectively displace water from the metal surface. After the evaporation of the solvent, the corrosion inhibitors leave an effective shield.

Advantages:

- Easy application
- Suitable for most processes
- Drying and protection in one step
- Product selection available for every application. Protective films with different properties and film thickness (Oil, petroleum jelly, wax-like) for optimum results.
- Tailor made for customer specific solutions.
- Special products for high quality protection under extreme conditions.

Application:

Most effective application is immersion tank with a sloping floor and dirt or water stopcock. For post process treatment of parts machined with water based coolants or washed with aqueous cleaners. May also be sprayed.

Our range of rust protection oils includes user and environmentally friendly products. Properties and corrosion protection performance are combined in different product groups. This allows you to select the best product for your needs.



PERFORMANCE



Corrosions Protection Oils

Our Corrosion Protection Oils are base on mineral oil or synthetic oil and may be used at room temperature. They form non drying liquid films.

These oils are VOC free.

Advantages:

- Concentrated (not diluted with water)
- Ecologically friendly oily film.
- No heavy metals, better for the environment
- Reduced fire risk benefits:
- Free of solvents
- VOC free
- Non hazardous

Application:

As a preservative agent in plants using aromatic hydrocarbons. Suited for use in precision engineering, machine tools industry, steel mills. As an additive in perchlore ethylene cleaning systems, such as the preservation of fine blanking. Corrosion Protection Oil for the preservation of semi-finished products (bar product may also be sprayed and wire drawing). For finished parts, instrument parts in mass production, very small parts. The Corrosion Protection Oil may be applied by brush, spray, dipping or roller.

Water miscible corrosion protection oils

Our water miscible corrosion protection is based on mineral oil and contains film forming additives and emulsifiers.

Special additives guarantee the longest stability of the product.

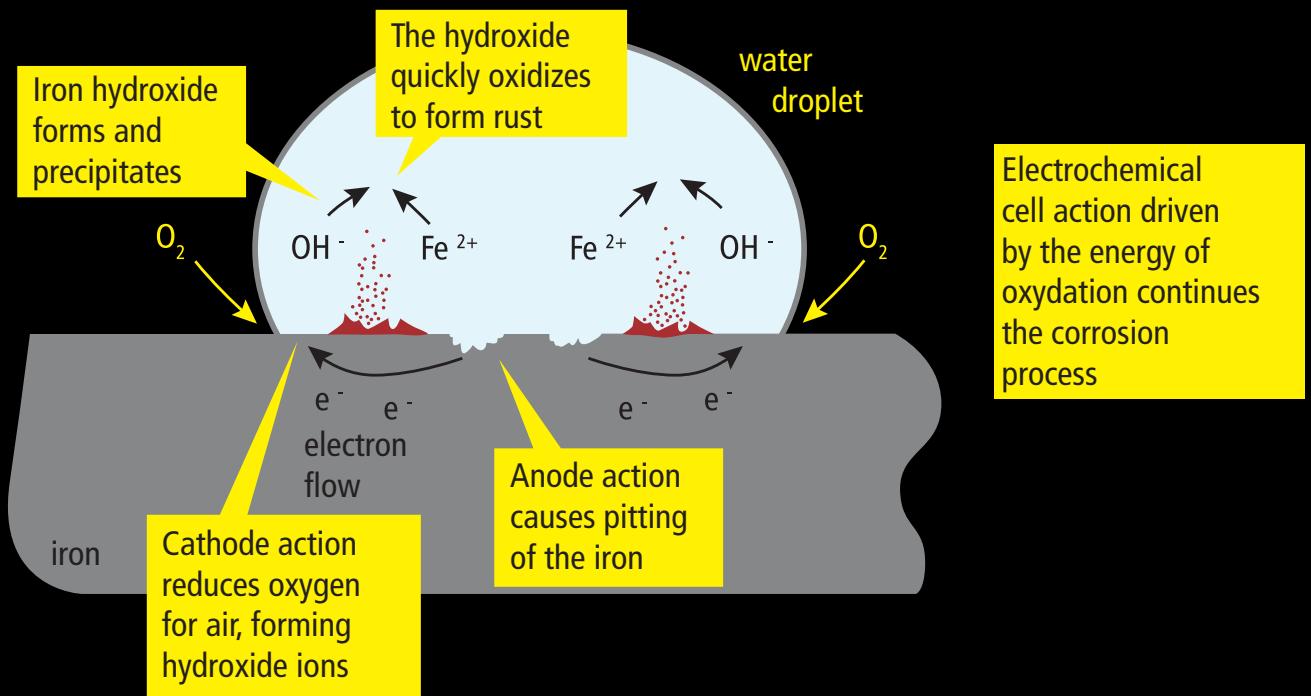
Aqua Strub is supplied as a concentrate, which is diluted with water for use. Use the same procedure as in preparation of water soluble coolants. A thin oily film remains after evaporation of the water.

Advantages:

- Meets increasing environmental regulations
- Reduces the risk of fire
- Improves the work environment
- Improvement of health and job safety

Application:

Aqua Strub Concentrate is applied as an emulsion and has a short to medium term protection. The concentration used is 5 to 20 % depending on the requirements. Aqua Strub is mainly used in the electroplating industry. Internal protection of tubes, eg transport protection of galvanized steel tubes. Usually applied by immersion in baths at room temperature up to max. 60°C. Product can also be sprayed.



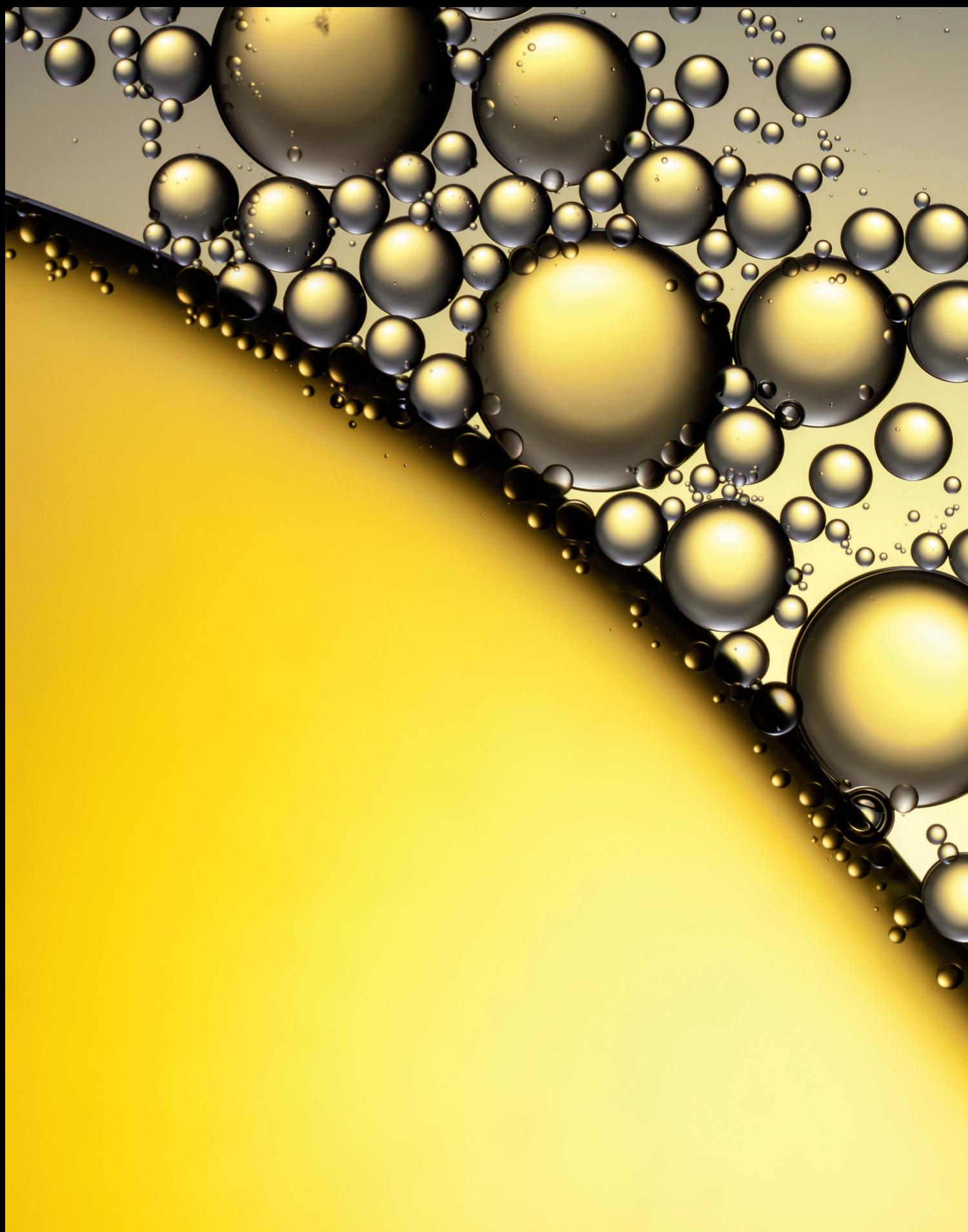
THE ENTIRE SPECTRUM FOR SOLUTI

STRUB Vulcomet Protection range of products

	Description		Application/Recommendation		HSE Rating	Drying Time in Minutes (min)	Viscosity 40 °C	Flash Point °C	Film Thickness µ (µ)	Type of film	Base medium	VOC %	Corrosion Protection Inside Storage (Month)	Corrosion Protection under Roof Outdoor Storage
Art. No.	Dipping													
Dewatering Fluid 1 Without Corrosion Protection	31121	Water Displacing Fast Drying	Prevents water spots and staining Can be used for dilution of Rostschutzöl BF- DW	**	30	< 2	60	0	no film	ent-KW	100	n. a.	n. a.	
Dewatering Fluid 2 With Corrosion Protection	31122	Water Displacing Fast Drying	Short term corrosion protection for temporary storage	**	30	< 2	42	< 0,1	ultra thin	ent-KW	96,5	< 1	n. e.	
Dewatering Fluid 3 With Corrosion Protection	31108	Water Displacing VOC Free	Short term corrosion protection for temporary storage	***	40–50	< 2	104	< 0,1	ultra thin	ent-KW	n. a.	< 1	n. e.	
Art. No.	Dip and Spray Coating													
8010 BF- DW VOC free	30034	Corr- u. DW Fluid, short-Medium protection	Inside storage. Transportation of parts especially after electroplating process	***	90–120	3,8	104	1	Oily, thin	ent-KW	n. a.	6–8	1–3 b	
8020 BF- DW VOC free	30125	Corr- u. DW Fluid, medium long protection	Longer inside and outside storage. Transportation of parts.	***	90–120	5	104	2,5	Soft, wax	ent-KW	n. a.	12–16	6	
9010 BF-DW VOC	30969	Corr- u. DW Fluid, Medium long protection and ashfree	Excellent water separation, protection during storage and transport for zinc phosphated material	***	90–120	3,8	100	1	Oily, thin	ent-KW	n. a.	8	1–3 b	
8040 BF-DW	30274	Corr- u. DW Fluid, short-Medium protection	Protection of machines, Spare parts storage and transport	*	30–60	1,5	42	0,8–1	Vaseline film thin	KW	82	6–8	3–4	
8045 BF-DW	30609	Corr- u. DW Fluid, Medium protection	Universal, highly effective for interim and final preservation	*	60–80	1,7	42	2,5	Soft wax film	KW	73	12–14	6	
8053 BF-DW	30610	Corr- u. DW Fluid, Long protection	Interim and final preservation. Overseas shipping with appropriate packaging	*	90–120	2,6	42	4–5	Waxy, slightly greasy film	KW	69	18	9	
8092-2 BF-DW	30795	Corr- u. DW Fluid, medium long protection	Protection and conservation of precision tools. Wax seal for final storage	**	60–80	1,6	50	2,6	Waxy film	KW	67	12–16	6–9	
9000-7 DW	31576	Corr- u. DW Fluid Medium protection (barium containing, acid vapor and alkali resistant)	Protection and conservation of precision tools. Final storage	*	60–80	1,8	45	0,8	Vaseline film	KW	78	8–12	4	
Long-term Rust Prev. Oil 8094BF Long-term Rust Prev. Oil 8095BF	30286 31242	Extra long protection	Maximum protection in damp and salt containing atmosphere. Outside storage	*	120 8	30 8	42	> 30	Vaseline film	KW / MI MI 54	30 54	18–36	> 12	
Blue 1800 BF	30612	Medium term corrosion protection	Agriculture, idle equipment VOC reduced	*	120	6,8	42	3–4	Vaseline film	KW / MI	30	12	6	
Protect DW 40 (Spray)	30784	Corrosion-dewaterin fluid for short and middle therm protection	General industrial applications fine mechanical work, electronic, automotive maintenance	**	60	1,8	46	0,6–1	Soft film	ent-KW	80	8	1–3	
Art. No.	Brush, spray, roll, immersion													
8000 BF – BM 8091 BF	31827 30216	Solvent free Corrosion protection oil	As an additive in plants. Preservation of fine machined and precision turned parts. Use undiluted as corrosion protection oil	*** 10	n. a. 10	44 65	190 3	3–5	oily	MI MI / SY	n. a. n. a.	12 5	3	
Art. No.	Dipping, immersion													
Aquastrub Concentrate	30991	Water miscible concentrate	In baths. Preservation of tubular steel furniture industry. Electroplating operations, etc.	***	30–60	45	> 120	3–20	grease	MI	n. a.	1 (10%) 5 (20%)	n.e.	

n. e. = not recommended / n. a. = not applicable / b = limited use / HSE = Human Security Environment / BF = barium free / DW = Dewatering, water-displacing properties / BM = base metal compatible / ent-KW = de-aromatized, odorless hydrocarbons / KW = hydrocarbon (Naphtha) / MI = Mineral oil / SY = Synthetic

ONS



STRUB + CO AG

Discover the World of Strub Lube

Since 1921, the name Strub has stood for quality, ecology and innovation in all areas of tribology. The basis of our success has been the principle of making use of our 90 years of tradition and experience in implementing innovative ideas. We aim to achieve high performance, reliability and environmentally-friendly solutions for our clients worldwide.

Our traditional family-owned company of Strub + Co. AG in the heart of Switzerland is an independent manufacturer of lubricants and technical cleaning agents. We have some 150 employees working in our business worldwide. Having branch offices and representatives in over 60 countries guarantees close proximity to our clients and the ability to react promptly to their specific needs.



Analysis

In order to guarantee the optimum performance and functionality of your lubricants, we analyse them on your behalf. The products are tested with the most modern laboratory equipment as to their chemical and physical properties.

Service

Our chemists and field-technicians stand ready to support you at all times. As your system supplier, we are close at hand and offer you our comprehensive customer support in respect of any questions or challenges you may face surrounding the topic of lubrication.

Tailor-Made Products

In the event that you are unable to find the optimum product for your application in our list of over 1,600 lubricant specialities, we shall develop a tailor-made product for you.



STRUB+Co. AG
Swiss Tribology
Mühlemattstrasse 5
CH-6260 Reiden

phone +41 62 785 22 22
fax +41 62 785 22 33
strub@strub-lube.ch
www.strub-lube.ch

Representative:

