

Innovativ Schmierung Additives

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公司简介

上海**壹萨化学科技有限公司**是一家专注于水溶性金属加工液添加剂研发及生产的公司。

公司拥有自主研发的基于DMG-CNC平台的润滑性能评估系统,四球试验机,X荧光仪,GCMS,FTIR,动态接触角,动态表面张力仪,COD及总磷总氮测定仪和全自动过程采集合成仪等分析评估设备。

公司为多家大型金属加工液生产企业定制开发的多款产品成功取代国际一线品牌的产品,并赢得了客户的好评。此外聚醚酯和芥酸酰胺等已成为3C行业加工液的首选添加剂。





研发中心



DMG-CNC润滑性测试系统









研发中心



GCMS & X-RAY & FTIR







产品目录

	种类 t range	页码 Slide number		产品种类 Product range			
防锈剂	Rust inhibitor	1~3	聚醚胺	Polyether amine	21		
磷酸酯	Phosphate ester	4~8	乳化助剂	Emulsification aid	22~28		
聚酯	Polyester	9~15	酰胺&特殊胺	Amide & Specialty Amine	29~30		
自乳化酯	Self-emulsifier ester	16~17	杀菌剂	Biocides	31~32		
聚醚酯	Polyether ester	18~19	消泡剂	Defoamer	33		
聚醚	Polyether	20	其他	Others	34~36		



防锈缓蚀剂 Rust inhibitor

产品名称 Product designation	外观 Appearance	有效含量 Active content,%	推荐用量 Application rate, %	适用体系 Recommend system	简介 Product introduction
AR212	透明液体 Transparent liquid	≥98	0.5~2.0	高含水体系 High-water-content system	硅烷类铝缓蚀剂,不含磷,推荐使用在高pH值体系的配方中,如全合成、清洗剂等。 It's a phosphorus-free and silane-based aluminum corrosion inhibitor. It is recommended for the formulations with high-pH systems such as fully synthetic products and cleaning agents.
AR411	透明液体 Transparent liquid	≥40	0.5~2.0	高含油体系 High-oil-content system	改性硅酯,推荐用于微乳或者高含油的半合成体系,对铝合金具有优异的保护性。 It's a modified silicone ester. It is recommended for micro-emulsion or high-oil-content semi-synthetic systems, providing excellent protection for aluminum alloys.



防锈缓蚀剂 Rust inhibitor

产品名称 Product designation	外观 Appearance	有效含量 Active content,%	推荐用量 Application rate, %	适用体系 Recommend system	简介 Product introduction
AR322	白色粉末 White powder	≥70	1.0~5.0	水溶性体系 Water-soluble system	无硼的高效复配型防锈剂,耐硬水性、综合防锈性能好,并且对铸铁有特效。 It's a boron-free high-performance compounded rust inhibitor. It has excellent hard water resistance, comprehensive anticorrosion properties, and specialized efficacy for cast iron.



防锈缓蚀剂 Rust inhibitor

产品名称 Product designation	外观 Appearance	有效含量 Active content,%	推荐用量 Application rate, %	适用体系 Recommend system	简介 Product introduction
AR-CU	黄色液体 Yellow liquid	≥80	0.1~2.0	水溶性体系 Water-soluble system	苯并三氮唑的衍生物,对铜及其合金有良好的保护性,对钴离子也有优异的抑制作用,但不推荐与亚硝酸盐类共同使用。 It's a benzotriazole derivative. It has excellent protection for copper and its alloys, as well as inhibition against CO ²⁺ . However, it is not recommended for use in combination with NO ²⁻ .
AR-CUO	黄色液体 Yellow liquid	≥95	0.01~1.0	油溶性体系 Oil-soluble system	苯并三氮唑的衍生物,对铜及其合金有良好的保护性,对各类基础油都有良好的相容性。 It's a benzotriazole derivatives which provide effective protection for copper and its alloys, while demonstrating excellent compatibility with various base oils.



产品名称 Product designation	外观 Appearance	酸值 Acid value	运动粘度 Viscosity@40cst	磷含量,% Phosphorus content,%	EO含量 No. of EO	推荐用量 Application rate, %	简介 Product introduction
PE302	淡黄色液体 Light yellow liquid	120~180	100~300	5~6	7~9	0.5~1.0	脂肪醇聚氧乙烯醚磷酸酯,具有良好的极压性以及铝保护性,被广泛的应用于铝合金削液配方中,具有很高的性价比。 It's a fatty alcohol polyoxyethylene ether phosphate ester which has excellent extreme pressure performance and aluminum protection. It is widely used in aluminum alloy cutting fluid formulations due to its high cost-effectiveness.
PE306LF	黄色液体 Yellow liquid	70~150	150~350	3~4	2~4	0.5~2	脂肪醇聚氧乙烯聚氧丙烯醚磷酸酯,对铝有不错的保护性,其泡沫比PE302更低. It's a fatty alcohol polyoxyethylene polyoxypropylene ether phosphate ester. It has good aluminum protection and exhibits lower foaming tendency compared to PE302.



产品名称 Product designation	外观 Appearance	酸值 Acid value	运动粘度 Viscosity@40cst	磷含量,% Phosphorus content,%	EO含量 No. of EO	推荐用量 Application rate, %	简介 Product introduction
PE518	黄色液体 Yellow liquid	120~200	300~600	4~5	4~6	1~2	油醇聚氧乙烯醚磷酸酯,低泡且具有良好的助乳化能力。 It's an oleyl alcohol polyoxyethylene ether phosphate which has low-foaming and exhibits excellent emulsifying capability.
PE707	淡黄色液体 Light yellow liquid	130~230	450~750	6~7	4~6	1~5	水溶性苯基磷酸酯,具有低泡性,对铝合金有一定保护作用,清洗性好,具有优异的耐碱性,运用于清洗剂中可用作增溶剂。 It's a water-soluble phenyl phosphate ester with low foaming characteristics. It has excellent alkali resistance and a litter bit aluminum protection performance. It can be used as a solubilizer when it is used in cleaning agents.



产品名称 Product designation	外观 Appearance	酸值 Acid value	运动粘度 Viscosity@40cst	磷含量,% Phosphorus content,%	EO含量 No. of EO	推荐用量 Application rate, %	简介 Product introduction
PE700	褐色液体 Brown liquid	60-120	450-750	4~5	EO-6 PO-4	1~5	水溶性聚醚磷酸酯,具有低泡性,对铝合金有保护作用,清洗性好,具有优异的耐碱性。 It's a water-soluble polyether phosphate ester with low foam performance. It provides aluminum alloy protection, excellent cleaning performance, and outstanding alkali resistance.
PE108	浅色液体 Light Yellow liquid	250-400	100-200	11-12	0	0.5~2	脂肪醇类磷酸酯,具有优异的极压性能,可用于油性产品和乳液中提高产品的极压性能。 It's a fatty alcohol phosphate ester which has outstanding EP performance. It is suitable for both oil-based products and emulsions to enhance the EP properties.



产品名称 Product designation	外观 Appearance	酸值 Acid value	运动粘度 Viscosity@40cst	磷含量,% Phosphorus content,%	EO含量 No. of EO	推荐用量 Application rate, %	简介 Product introduction
PE103	黄色液体 Yellow liquid	170~270	150~250	8~9	0	1~2	脂肪醇类磷酸酯,对铝有良好的保护性能,可用作铝保护剂以及极压剂。 It's a fatty alcohol phosphate ester provide excellent aluminum protection. It can be used as an aluminum corrosion inhibitor or an extreme pressure (EP) additive.
PE106	黄褐色液体 Brown liquid	250~400	200~300	9~10	0	1~2	脂肪醇类磷酸酯,具有优异的铝保护性能,尤其针对ADC12铝合金,对配方体系有一定的助乳化性。 It's a fatty alcohol phosphate ester. It has outstanding aluminum protection properties, especialy to the ADC12 aluminum alloy. It also provides emulsification capabilities to the formulation.



产品名称 Product designation	外观 Appearance	酸值 Acid value	运动粘度 Viscosity@4 0cst	磷含量,% Phosphoru s content, %	EO含量 No. of EO	推荐用量 Application rate, %	简介 Product introduction
PN86	黄色液体 Yellow liquid	150~300	1100-1900	6~7	0	0.5~2	胺中和磷酸酯,可适用于水性或者油性产品中的极压剂 It's a fatty amine-neutralized phosphate ester which can be used as an extreme pressure agent both in water soluble or oil soluble formulation.
PN88	黄色液体 Yellow liquid	120-180	700-1100	5~6	0	0.5~2	胺中和磷酸酯,可适用于水性或者油性产品中的极压剂 It's a fatty amine-neutralized phosphate ester which can be used as an extreme pressure agent both in water soluble or oil soluble formulation.
PN89	黄色液体 Yellow liquid	150~300	500~1000	6~7	0	0.5~2	胺中和磷酸酯,可适用于水性或者油性产品中的极压剂 It's a fatty amine-neutralized phosphate ester which can be used as an extreme pressure agent both in water soluble or oil soluble formulation.



产品名称 Product designation	外观 Appearance	酸值 Acid value	粘度 Viscosity @40cst	润滑等级 Lubrication grade	推荐用量 Application rate, %	适用体系 Recommend application	简介 Product introduction
ES525	黄色液体 Yellow liquid	15~35	700~1000	***	5~10	半合成、微乳液 Semi-synthetic Microemulsion	易乳化聚酯,该聚酯含有EO的亲水基团,相对于一般的多元醇聚酯来说更容易乳化,可以直接添加到很多乳液体系中,且配方不需要调整。 It's an easily emulsifiable polyester, which contains hydrophilic EO structure. It is easier to be emulsified compared to normal polyester. It can be directly added to many emulsion formulations without any adjustment.
ES530P	黄色液体 Yellow liquid	20~40	800~1000	***	5~20	全合成 Fully synthetic	亲水性聚酯,配合CH24和胺可直接溶水成透明液体,适用于调配高润滑性耐硬水全合成切削液。 It's a highly hydrophilic polyester. It can be used in a high lubricity sythetic formulation with excellent hard water stability performance when combined with CH24 additive.



产品名称 Product designation	外观 Appearance	酸值 Acid value	粘度 Viscosity @40cst	润滑等级 Lubrication grade	推荐用量 Application rate, %	适用体系 Recommend application	简介 Product introduction
ES545	黄色液体 Yellow liquid	43~53	520~720	***	5~10	半合成、微乳液 Semi-synthetic Microemulsion	改性蓖麻油酸酯,该聚酯具有四聚蓖麻油酸酯类似的性能,但是改善了清洁性方面的问题,具有良好的性价比 It's an economic modified ricinoleate. It provides not only the similar emulsion perfromance as normal ricinoleate but also the better cleaning performance.
ES04F	黄色液体 Yellow liquid	45~65	250~450	***☆	5~10	半合成、微乳液 Semi-synthetic Microemulsion	改进型四聚蓖麻油酸酯,相对于常规蓖麻油酸酯具有更优异的乳化性能。 It's an improved polyricinoleate, which provides better emulsifying capacity compared to normal polyricinoleate.



产品名称 Product designation	外观 Appearance	酸值 Acid value	粘度 Viscosity @40cst	润滑等级 Lubrication grade	推荐用量 Application rate, %	适用体系 Recommend application	简介 Product introduction
ES04N	黄色液体 Yellow liquid	50-90	400-800	***☆	5~10	半合成、微乳液 Semi-synthetic Microemulsion	多功能聚酯,具有良好的润滑性和乳化能力,优异的清洁性,对有色金属和黑色金属具有一定的缓蚀性能。 It's a multifunctional polyester. It has good lubricity and emulsifying capability as well as excellent clean perfromance in the formulation. It can provide corrosion inhibition for both non-ferrous and ferrous metal.
ES542	黄色液体 Yellow liquid	< 5	400~600	***	5~10	水溶性切削液 纯油性 Water-soluble cutting fluid Neat oil	高性价比多元醇聚酯, 良好的油溶性和润滑性。适用于绝大多数的金属加工液和加工油。 It's a cost-effective polyol polyester with excellent oil solubility and lubricity, suitable for most metalworking fluids and cutting oils.



产品名称 Product designation	外观 Appearance	酸值 Acid value	粘度 Viscosity @40cst	润滑等级 Lubrication grade	推荐用量 Application rate, %	适用体系 Recommend application	简介 Product introduction
ES512	白色膏状液体 White paste	10~30	100~150 @100℃	****	3~5	半合成、微乳液 Semi-synthetic Microemulsion	饱和聚酯,该聚酯具有优异的润滑性,而且还具有一定的抑泡能力,建议配合醚羧酸使用效果更佳。 It's a saturated polyester with excellent lubricity and foam suppression properties. Optimal performance is achieved when combined with ether carboxylic acids.
ES513	白色膏状液体 White paste	10~30	140~220 @100℃	****	3~10	纯油性 Neat oil	饱和聚酯,该聚酯具有优异的润滑性,是调配环保型切削油的代替氯化石蜡理想添加剂。 It's a saturated polyester with outstanding lubricity, serving as an ideal additive of chlorine free neat cutting oil.



产品名 Produc designat	ct	外观 Appearance	酸值 Acid value	粘度 Viscosity @40cst	润滑等级 Lubrication grade	推荐用量 Application rate, %	适用体系 Recommend application	简介 Product introduction
ES600	0	黄色液体 Yellow liquid	< 5	600~900	***	5~10	半合成、微乳液 Semi-synthetic Microemulsion	多元醇聚酯,具有优异的润滑性,与各类基础油相容性好。 It's a polyol polyester with excellent lubricity and superior compatibility with a wide range of base oils.
ES640	00	黄色液体 Yellow liquid	<10	2500~4000	****	3~10	纯油性 Neat oil	高粘度多元醇聚酯,配合PN86使用,可代替氯化石蜡,是调配环保型切削油的理想添加剂。 It's a high viscosity polyol polyester, serving as an effective alternative to chlorinated paraffin additive when combined with PN86.



产品名称 Product designation	外观 Appearance	酸值 Acid value	粘度 Viscosity @40cst	润滑等级 Lubrication grade	推荐用量 Application rate, %	适用体系 Recommend application	简介 Product introduction
ES138	棕色液体 Brown liquid	35-55	700-1200	***	5~10	半合成、微乳液 Semi-synthetic Microemulsion	多功能聚酯,具有优异的润滑性和硬水稳定性。 It's a multifunctional poly ester. It can provide both excellent lubricity and hard water stability performance.
ES206	黄色液体 Yellow liquid	40-70	570-870	***	5~10	半合成、微乳液 Semi-synthetic Microemulsion	多功能聚酯,具有优异的润滑性和乳化能力。 It's a multifunctional poly ester. It can provide both excellent lubricity and emulsifying capability.

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产品名称 Product designation	外观 Appearance	酸值 Acid value	粘度 Viscosity @40cst	润滑等级 Lubrication grade	推荐用量 Application rate, %	适用体系 Recommend application	简介 Product introduction
ES6500	黄色液体 Yellow liquid	≤15	3800-6000	***	5~10	纯油性 Neat oil	是一款油性高粘度聚酯,与各种基础油的相容性好,由天然的小分子聚合而成,生物降解性好,具有及其优异的润滑性和退火清净性。 It's a high viscosity biodegradable polyester with good compatibility with various base oils. It is synthesized from the natural vegetable material. It has excellent lubricity and outstanding annealing cleanliness.



自乳化酯 Self-emulsifier ester

	名称 duct nation	外观 Appearance	酸值 Acid value	粘度 Viscosity@40cst	EO含量 No. of EO	HLB值 HLB value	推荐用量 Application rate, %	简介 Product introduction
ES30	051F	褐色液体 Brown liquid	29~37	600~1000	3	6~7	3~5	低泡型自乳化酯,具有优异的润滑性能和耐硬水能力。 It's a low foaming self emulsifying ester which offers outstanding lubricity and excellent hard water resistance.
ES30	052	褐色液体 Brown liquid	95~115	250~450	6	8~9	5~20	亲水性自乳化酯,用胺中和以后可以直接溶水成透明液体,适用于耐硬水全合成切削液的调配。 It's a hydrophilic self-emulsifying ester. It can be solubel in water to be a clear liquid after neutralization with amine. It is suitable for making hard water -tolerant synthetic cutting fluids.



自乳化酯 Self-emulsifier ester

产品名称 Product designation	外观 Appearance	酸值 Acid value	粘度 Viscosity@40cst	EO含量 No. of EO	HLB值 HLB value	推荐用量 Application rate, %	简介 Product introduction
ES3054	褐色液体 Brown liquid	45~55	500~800	4	7~8	5~10	自乳化酯,具有很好的润滑性与抗硬水能力,可与ES3058复配使用,适用于镁合金金属加工液的调配。 It's a self emulsifying ester which offers superior lubrication and hard water resistance, suitable for magnesium alloy cutting fluids combine with ES3058.
ES3058	褐色液体 Brown liquid	≤20	800~1200	3	9~10	5~10	专门针对镁合金切削液研发的自乳化酯,相对于ES3054自乳化酯,对镁合金的腐蚀性更小,适合配制高端镁合金切削液。 It's a self emulsifying ester. It is designed specially for magnesium alloy cutting fluids combine with ES3054.



聚醚酯 Polyether ester

产品名称 Product designation	外观 Appearance	25℃, pH@5%	粘度 Viscosity@40cst	浊点,℃ Cloud point,℃	泡沫 Foam	阳离子 兼容性 Cationic Compati bility	润滑等级 Lubrication grade	简介 Product introduction
EW14	黄棕色液体 Brown liquid	8.0-10.0	400~500	57~67	***	N	****	低泡型聚醚酯,良好的润滑性,可用于提高水性加工液体系的润滑性,低泡性,具有较低的泡沫倾向,水解安定性好。 It's a low foam polyether ester with excellent lubricity. It has low foaming tendency and good hydrolysis stability.
EW14X	淡黄色液体 Light yellow liquid	7.0-9.0	350~450	70~77	***	N	*** *	低泡型聚醚酯,良好的极压性和较低的泡沫倾向,对铝合金的腐蚀性低,耐硬水好。 It's a low-foaming polyether ester with good EP performance. There is no corrosion to aluminum alloys and good hard water resistance.



聚醚酯 Polyether ester

产品名称 Product designation	外观 Appearance	25℃, pH@5%	粘度 Viscosity@40cst	浊点,℃ Cloud point,℃	泡沫 Foam	阳离子 兼容性 Cationic Compati bility	润滑等级 Lubrication grade	简介 Product introduction
EW14N	黄棕色液体 Brown liquid	7.0~9.0	400~500	60~70	**	N	*** 	低气味聚醚酯,适用于配制高润滑要求的全合成加工液。 It's a low oder polyether ester, suitable for high-quality synthetic cutting fluids.
EW11F	黄色液体 Yellow liquid		80~160	50~55	**	Y	** *	聚醚酯,专门针对钛合金全合成设计,良好的润滑性,低泡性且水解安定性好,与阳离子兼容。 It's a polyether ester with excellent lubricity, designed specially for titamium alloy cutting fluids. It has low foaming and good hydrolysis stability, compatible with cationic additive.



聚醚 Polyether

产品名称 Product designation	外观 Appearance	25℃, pH@5%	粘度 Viscosity@40cst	浊点,℃ Cloud point,℃	泡沫 Foam	阳离子 兼容性 Cationic Compatibil ity	润滑等级 Lubrication grade	简介 Product introduction
PM20	无色液体 Colorless liquid	6.0~8.0	100~200	34~38	****	Υ	** *	反式嵌段聚醚,优异的润滑性,在水性切削液中还具有良好的冷却和清洗功能,与阳离子配伍。 It's a trans-block polyether, offers outstanding lubricity and provides excellent cooling and cleaning performance in water-based cutting fluids. It can be compatible with cationic surfactants.
PM40	无色液体 Colorless liquid	6.0~8.0	200~250	48~53	***	Υ	***	反式嵌段聚醚,优异的润滑性,在水性切削液中还具有良好的冷却和清洗功能,与阳离子配伍。 It's a trans-block polyether, offers outstanding lubricity and provides excellent cooling and cleaning performance in water-based cutting fluids. It can be compatible with cationic surfactants.



聚醚胺 Polyether amine

产品名称 Product designation	外观 Appearance	25℃, pH@5%	粘度 Viscosity@40cst	浊点,℃ Cloud point,℃	泡沫 Foam	阳离子 兼容性 Cationic Compatib ility	润滑等级 Lubrication grade	简介 Product introduction
PMN44	浅黄色液体 Light yellow liquid	9.5~11.5	180~280	58~68	****	Υ	*** \$	聚醚胺,优异的润滑性,在水性切削液中还具有良好的冷却和清洗功能,可与阳离子以及其他离子表面活性剂配伍。 It's a polyether amine, offers outstanding lubrication performance while delivering superior cooling and cleaning properties in aqueous cutting fluids. It demonstrates good compatibility with both cationic and other ionic surfactants.
PMN45	黄色液体 Yellow liquid	9.5~11.5	200~400	> 60	***	Y	***☆	聚醚胺,优异清洁性,泡沫低,特别适用于清洁性要求极高的全合成体系,亦可用于清洗剂。 It is a polyether amine with excellent cleaning and low foam performance, especially suitable for synthetic fluid with extremely cleaning requirements. It can also be used in cleaning agents.



产品名称 Product designation	外观 Appearance	25℃, pH@1%	EO含量 No. of EO	耐硬水能力 Hard water resistance	泡沫 Foam	HLB值 HLB value	简介 Product introduction
EM12	黄色液体 Yellow liquid	8.5-10.5	12~15	***	***	15	非离子表面活性剂,优异的除油污、乳化和分散能力,具有较低的泡沫倾向,与其他表面活性剂配伍性好并易生物降解、无毒环保。 It is a nonionic surfactant. It demonstrates excellent cleaning, emulsifying and dispersing capabilities. It exhibits low foaming tendency and shows good compatibility with other surfactants. Additionally, it features easy biodegradability, being non-toxic and environmentally friendly.
EM15	黄色液体 Yellow liquid	8.0-10.0	12~15	****	*	14	非离子表面活性剂,在金属加工液中有良好的乳化作用,良好的辅助抗硬水作用,细菌稳定性好。 It is a nonionic surfactant. It has excellent emulsifying capability and hard water resitant as well as bacterial stability.



产品名称 Product designation	外观 Appearance	25℃, pH@1%	EO含量 No. of EO	耐硬水能力 Hard water resistance	泡沫 Foam	HLB值 HLB value	简介 Product introduction
EM213	黄色液体 Yellow liquid	6.5-8.5	4~7	***	***	10.0	非离子表面活性剂,具有优异的乳化性,可作为金属加工液的疏水性乳化剂,具有较低的泡沫倾向,与其他性质的表面活性剂配伍性好且易生物降解。 It is a low HLB nonionic surfactants which has excellent emulsifying properties, can be used as hydrophobic emulsifiers for metalworking fluids. It has a low foaming tendency, good compatibility with other types of surfactants, and are easily biodegradable.
EM215	黄色液体 Yellow liquid	6.0~9.0	8-10	***	**☆	12.0	非离子表面活性剂,优异的除油、去污、乳化和分散能力,与其他表面活性剂配伍性好,易生物降解。 It is a middle HLB nonionic surfactant which has excellent emulsifying properties, suitable as a hydrophobic emulsifier for metalworking fluids. It exhibits low foaming tendency, demonstrates good compatibility with surfactants of different properties, and is readily biodegradable.



产品名称 Product designation	外观 Appearance	25℃, pH@1%	EO含量 No. of EO	耐硬水能力 Hard water resistance	泡沫 Foam	HLB值 HLB value	简介 Product introduction
EM218	黄色液体 Yellow liquid	6.0~9.0	10~12	***	★★☆	14.9	非离子表面活性剂,优异的乳化和耐硬水能力,具有较低的泡沫倾向,与其他表面活性剂配伍性好并易生物降解、无毒环保。 It is a high HLB non-ionic surfactant which has excellent emulsification and hard water resistance, low foaming tendency, good compatibility with other surfactants, as well as being readily biodegradable, non-toxic and environmentally friendly.
EM763N	棕色液体 Brown liquid	9.0~10.0	2~3	***	***	12.5	阳非离子表活,兼具一定润滑性,对乳液的颗粒度调整具有良好的作用,对硬水具有良好的耐受能力以及低泡倾向。 It is a non-ionic and cationic emulsifier with inherent lubricity that effectively adjusts emulsion particle size, demonstrates excellent hard water tolerance, and exhibits low foaming characteristics.



产品名称 Product designation	外观 Appearance	25℃, pH@1%	浊点,℃ cloud point	耐硬水能力 Hard water resistance	泡沫 Foam	HLB值 HLB value	简介 Product introduction
EM41	无色液体 Colorless liquid	5.0~7.5	48~50	***	***	8.1	长链脂肪醇EO&PO非离子低泡表面活性剂。良好的乳化能力,对乳化液的颗粒度的调整具有良好的作用,还能提高浓缩液的稳定性。 It is a long-chain fatty alcohol EO&PO nonionic surfactant with low foam performance. It demonstrates excellent emulsification capability, effectively adjusts emulsion particle size distribution, and enhances the stability of concentrated solutions.
EM63	无色液体 Colorless liquid	5.5~7.5	61~63	***	***	9.2	长链脂肪醇EO&PO非离子低泡表面活性剂。良好的乳化能力,对乳化液的颗粒度的调整具有良好的作用,还能提高浓缩液的稳定性。 It is a long-chain fatty alcohol EO&PO nonionic surfactant with low foam performance. It demonstrates excellent emulsification capability, effectively adjusts emulsion particle size distribution, and enhances the stability of concentrated solutions.



产品名称 Product designation	外观 Appearance	25℃, pH@1%	EO含量 No. of EO	耐硬水能力 Hard water resistance	泡沫 Foam	HLB值 HLB value	简介 Product introduction
C13H	无色液体 Colorless liquid	6.5~8.5	0	***	★★ ☆	4	无味异构醇,在切削液中做耦合剂使用,可以有效的提高浓缩液的稳定性,减少乳化剂的使用。 It is an odorless Isomeric alcohol which used as a coupling agent in cutting fluids, which can effectively improve the stability of concentrate and reduce emulsifier consumption.
С66Н	无色液体 Colorless liquid	6.0~8.0	0	***☆	****	5.4	改性脂肪醇,是一款无色低气味的耦合剂,能提高浓缩液和稀释液的稳定性,可以减少亲油性乳剂的使用量,同时还能够有效的降低成品的泡沫倾向。 It is a modified fatty alcohol which is a colorless low-odor coupling agent that enhances the stability of both concentrates and dilutions. It reduces the required dosage of lipophilic emulsifiers while effectively suppressing foam formation in finished products.



产品名称 Product designation	外观 Appearance	25℃, pH@1%	EO含量 No. of EO	耐硬水能力 Hard water resistance	泡沫 Foam	HLB值 HLB value	简介 Product introduction
EA11	黄色液体 Yellow liquid	1.5~3.0	9~10	****	*	13	脂肪醇聚氧乙烯醚羧酸,具有优良的抗硬水能力,但需要注意一下泡沫问题。 It's a fatty alcohol polyoxyethylene ether carboxylic acid demonstrates excellent hard water resistance, though foam control requires attention.
EA25	黄色液体 Yellow liquid	9.5-11.5		** *☆	*	14	低泡型润湿剂,具有良好的润湿效果,能使加工液快速铺展于金属表面,同时可改善体系的硬水稳定性,具有较低的泡沫倾向。 It's a low-foaming wetting agent with excellent wetting properties, enabling rapid spreading of metalworking fluids on metal surfaces. It also enhances the system's hard water stability while maintaining low foaming tendency.

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产品名称 Product designation	外观 Appearance	25℃, pH@1%	EO含量 No. of EO	耐硬水能力 Hard water resistance	泡沫 Foam	HLB值 HLB value	简介 Product introduction
EA18	黄色液体 Yellow liquid	2.0~4.0	9~10	*** 	***	10	油醇聚氧乙烯醚羧酸,具有良好的抗硬水能力,相对较低的泡沫倾向。 It's an oleyl alcohol polyoxyethylene ether carboxylic acid demonstrates superior hard water resistance with relatively low foaming tendency.
EA20	黄色液体 Yellow liquid	2.0~4.0	4~5	*** 	****	15	脂肪醇聚氧乙烯醚羧酸,具有良好的抗硬水能力,较低的泡沫倾向。 It's a fatty alcohol polyoxyethylene ether carboxylic acid offers excellent hard water resistance with low foaming tendency.



酰胺&特殊胺 Amide & Specialty Amines

产品名称 Product designation	外观 Appearance	рН@5%	粘度 Viscosity@40cst	泡沫 Foam	耐硬水能 力 Hard water resistance	HLB值 HLB value	推荐用量 Application rate, %	简介 Product introduction
AM2302	褐色液体 Brown liquid	8.5~10.5	100~200	**	****	8~10	2~5	耐硬水酰胺,具有良好的抗硬水效果,在高硬度的体系中能给切削液提供辅助的防锈作用,适用于镁合金切削液。 It's a hard water-resistant amide demonstrates excellent hard water tolerance and provides auxiliary rust prevention for cutting fluids in high-hardness systems, particularly suitable for magnesium alloy machining fluids.
AM07	褐色液体 Brown liquid	9.0~11.0	350~550	*** *	**	8~10	2~5	芥酸酰胺,良好的乳化能力和低泡特性,对铝合金的腐蚀较小。 It's an erucamide exhibits excellent emulsifying capacity and low-foaming characteristics, with minimal corrosion effects on aluminum alloys.



酰胺&特殊胺 Amide & Specialty Amines

产品名称 Product designation	外观 Appearance	pH@5%	粘度 Viscosity@40cst	泡沫 Foam	耐硬水能力 Hard water resistance	推荐用量 Application rate, %	简介 Product introduction
AM020	黄色液体 Yellow liquid	10.0~12.0	100~180	****	***	2~10	特殊胺,具有良好碱储备和抑菌性的特殊胺,对有色金属,尤其是铜合金的腐蚀较小,对钴离子也有良好的抑制作用。 It's a specialty amine demonstrates excellent alkaline reserve and bacteriostatic properties, with minimal corrosion effects on non-ferrous metals (particularly copper alloys) and effective cobalt ion suppression.
AM097	浅黄色液体 Light yellow liquid	9.3~10.3	40~70	****	***	2~10	特殊胺,具有优异的碱储备和抑菌性,对稀释液pH值的缓冲起到了有效的补强作用。 It's a specialty amine features outstanding alkaline reserve and bacteriostatic performance, effectively reinforcing the pH buffering capacity of diluted solutions.



杀菌剂 Biocides

产品名称 Product designation	外观 Appearance	折光率 (25℃) Refraction rate	рН@5%	杀菌速率 Germicidal rate	杀菌持久性 Germicidal persistence	推荐用量 Application rate, %	简介 Product introduction
ВК	淡黄色液体 light yellow liquid	1.4750~1.4850	10~11	***	*	2~4	均三嗪杀菌剂,是一种低毒广谱高效杀菌剂,可用金属加工液、清洗剂中,本品对革兰氏阳性菌或阴性菌均有较强的抑杀力。 Triazine Biocide is a low-toxicity, broadspectrum, and high-efficiency bactericide suitable for metalworking fluids and cleaning agents. This product demonstrates strong bacteriostatic and bactericidal efficacy against both Gram-positive and Gram-negative bacteria.
МВМ	淡黄色液体 Light yellow liquid	1.4680~1.4780	10~11	***	***	2~4	吗啉类杀菌剂,有效防止加工液变质,相对BK具有更持久的抗菌性,不易导致调配好的加工液变色。 Morpholine fungicides effectively prevent the deterioration of processing fluids, offering more persistent antimicrobial properties compared to BK and are less likely to cause discoloration of prepared working solutions.



杀菌剂 Biocides

产品名称 Product designation	外观 Appearance	折光率 (25℃) Refraction rate	рН@5%	杀菌速率 Germicidal rate	杀菌持久性 Germicidal persistence	推荐用量 Application rate, %	简介 Product introduction
MOX	淡黄色液体 Light yellow liquid	1.460~1.470	9~11	***	***	2~4	噁唑烷类杀菌剂,相对MBM具有更强的杀菌能力,且对有色金属的腐蚀较小。 Oxazolidine fungicides exhibit stronger bactericidal efficacy compared to MBM and cause less corrosion to non-ferrous metals.
BIT85	白色粉末 White powder			*	****	0.3~0.8	异噻唑啉酮类防腐剂,适用于非甲醛释放体体系的切削液配方。 Isothiazolinone preservatives are suitable for cutting fluid formulations in non-formaldehyde releasing systems.



消泡剂 Deformer

产品名称 Product designation	外观 Appearance	推荐用量 Application rate, %	适用体系 Recommend application	简介 Product introduction
DF35	白色膏状液体 White paste	0.05~0.20	半合成、微乳液 Semi-synthetic Microemulsion	适用于高含水加工液及清洗剂,与浓缩液的相容性好。 It's suitable for high water contain formulation or cleaner, delivering excellent compatibility with concentrates.
DF75	白色膏状液体 White paste	0.05~0.20	半合成、微乳液 Semi-synthetic Microemulsion	适用于半合成或乳化体系的配方,消泡持久性好。 It's suitable for semi-synthetic or emulsified systems, offering long-lasting defoaming performance.



消泡剂 Deformer

产品名称 Product designation	外观 Appearance	推荐用量 Application rate, %	适用体系 Recommend application	简介 Product introduction
DF50	白色膏状液体 White paste	0.05~0.20	半合成、微乳液 Semi-synthetic Microemulsion	适用于各种配方体系,消泡速度快,与浓缩液的相容性好。 It's suitable for various formulation systems, delivering fast defoaming speed and excellent compatibility with concentrates.
DF60N	白色膏状液体 White paste	0.05~0.20	半合成、微乳液 Semi-synthetic Microemulsion	适用于半合成的配方,消泡持久性好。 It's suitable for semi-synthetic systems, offering long-lasting defoaming performance.



其他 Others

产品名称 Product designation	外观 Appearance	рН@5%	粘度 Viscosity@40cst	泡沫 Foam	耐硬水 Hard water stability	推荐用量 Application rate, %	简介 Product introduction
PTS-7	浅黄色液体 Light yellow liquid	6.0~9.0	400~500	****	***	0.5~1.0	聚季铵盐,具有优异的抗杂油能力,加速金属粉末的沉降性,同时还具有一定的抗菌能力。 It's a polyquaternium exhibit excellent tramp oil resistance, enhance the settling of metal particles, and also possess certain antimicrobial properties.
CH24	黄色液体 Yellow liquid	7.0~10.0	200~300	****	***	3~10	低气味聚醚增溶剂。 It's a low-odor polyether solubilizer.



其他 Others

产品名称 Product designation	外观 Appearance	pH@5%	粘度 Viscosity@40cst	泡沫 Foam	耐硬水 Hard water stability	推荐用量 Application rate, %	简介 Product introduction
AC2120	褐色液体 Brown liquid		2000-4000	***	***	0.5~2.0	21碳二元脂肪酸,具有良好的乳化能力以及耐硬水能力,产品纯度高且具有较好的防锈能力。 It's a di-acid with 21 carbon chain. It exhibits excellent emulsifying properties and hardness resistance in water, with high product purity and good rust prevention capability.
AC2130	棕色液体 Brown liquid		2200~4200	***	***	1~3	多元脂肪酸,具有良好的乳化能力以保证配方的稳定性,具有优异的防锈能力和清洁性,能使加工液快速在工件表面铺展,并提供一定的润滑效果。 It's a polybasic fatty acids exhibit excellent emulsifying properties to ensure formulation stability, outstanding rust prevention and cleaning performance. They enable rapid spreading of the working fluid on the workpiece surface while providing certain lubrication effects.

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其他 Others

产品名称 Product designation	外观 Appearance	рН@5%	粘度 Viscosity@40cst	泡沫 Foam	耐硬水能力 Hard water resistance	HLB值 HLB value	推荐用量 Application rate, %	简介 Product introduction
JC401	淡黄色液体 Light yellow liquid	5.0~7.0	50~70	****	***	11~13	0.5~1.0	炔醇衍生物润湿剂,有效的降低加工液的表面张力, 泡沫倾向低。 It's an alkyne alcohol derivative wetting agent effectively reduces the surface tension of processing fluids with low foaming tendency.

备注:

1、泡沫特征: ★★★★★:低泡; ★:高泡; 参照数据: 油酸二乙醇酰胺: ★★★ (★代表满星 ☆代表半星 Y代表是 N代表否)

 2、耐硬水特征:
 ★★★★★: 耐硬水优异;
 ★: 耐硬水差

 3、润滑特征:
 ★★★★★: 润滑优异;
 ★: 润滑差

4、杀菌速率: ★★★★: 杀菌速率高 ★: 杀菌速率低5、杀菌持久性: ★★★★: 杀菌持久 ★: 杀菌时间短







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