

Protection upgraded



Chemical Specialities for Industrial Parts Cleaning



Builders

Surfactants

Temporary Corrosion Protection

Product	SurTec 025	SurTec 108	SurTec 131	SurTec 132	SurTec 136	SurTec 138	SurTec 181	SurTec 194	SurTec 199	SurTec 199 P	SurTec 531	SurTec 084	SurTec 085	SurTec 086	SurTec 089	SurTec 092	SurTec 415	SurTec 104	SurTec 531	SurTec 533	SurTec 534	SurTec 590
Type	builder	alkaline builder	builder	builder	builder	high alkaline builder	high alkaline builder	high alkaline builder	high alkaline builder	high alkaline builder	organic builder	spray	spray/soak	spray	soak	soak	soak	corrosion protection	corrosion protection	corrosion protection	corrosion protection	corrosion protection
Form	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid
Foam	-	-	-	-	-	-	-	-	-	-	-	demulsifying	demulsifying	demulsifying	demulsifying	emulsifying	emulsifying	-	-	-	-	-
Process	soak cleaning, ultrasonic, spray cleaning, injection flood washing	soak cleaning, ultrasonic, spray cleaning, injection flood washing	soak cleaning, ultrasonic, spray cleaning, injection flood washing	soak cleaning, ultrasonic, spray cleaning, injection flood washing	soak cleaning, ultrasonic, spray cleaning, injection flood washing	soak cleaning, ultrasonic, spray cleaning, injection flood washing	soak cleaning, ultrasonic, spray cleaning, injection flood washing	soak cleaning, ultrasonic, spray cleaning, injection flood washing	soak cleaning, ultrasonic, spray cleaning, injection flood washing, electrolytical degreasing	soak cleaning, ultrasonic, spray cleaning, injection flood washing	soak cleaning, ultrasonic, spray cleaning, injection flood washing	spray cleaning	IFW, soak cleaning, ultrasonic, spray cleaning	spray cleaning	soak cleaning, ultrasonic	soak cleaning, ultrasonic	soak cleaning, ultrasonic					
Material	all ¹ , (Fe ^{2.5})	Fe, stainless steel, Mg	all ¹ , (Fe ^{2.5})	all ¹	Fe ² , stainless steel, (Al ³)	Fe ² , stainless steel, Mg	Fe, stainless steel, Mg	Fe, stainless steel, Mg	Fe ² , stainless steel, Mg, Cu	Fe, stainless steel, Mg	Fe ² , stainless steel, Mg	all ¹	all ¹	all ¹	all ¹	all ¹	all ¹	all ¹	Fe ¹	Fe ¹	all ¹	all ¹
Remarks	organic acids			boron-free	boron-free	boron-free	removes aluminium from die-cast moulds	builder for vesselcleaning	boron-free	dephosphating in barrel machines	salt free	according to Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents					hydrophobic		blue coloured		emulsion	
Hints	+ adequate surfactant														spotless corrosion protection after rinsing	can be used as a builder	used for leak tests	for mixed base material	long term protection			
Corrosion protection	without	with	without	without	without	without	without	without	without	without	with	without	without	without	without	without	without	very good	very good, in vapour phase	very good	very good	very good
pH ⁴	1	11.5	7	8	11	13	13	13	13	13	11-12	-	-	-	-	-	-	8	11-12	10-11	7-8	9
c [%]	2-5	2-5	3-5	3-5	3-5	3-5	5-10	3-10	3-10	5-10	1-5	0.3-1	0.3-1	0.3-1	0.3-1	0.3-2	1-5	0.5-1	0.1-3	0.1-3	0.1-3	5-15

¹ does not include Mg

² Fe = Iron, Cast Iron and Steel

³ non-ferrous materials such as copper and brass

⁴ 10 g/l in DI water at 20 °C

⁵ needs to be tested

Chemical Specialities for the complete portfolio of surface treatment

Application Areas of SurTec Products:



Industrial Parts Cleaning



Metal Pre-treatment



Functional Electroplating



Decorative Electroplating



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SurTec industrial parts cleaning stands for:

- comprehensive cleaning systems for all industrial applications
- superior quality and cost-effective systems
- environmentally responsible products
- analysable processes
- tailored solution for special applications

	Neutral Cleaners							All-in-one Cleaners										Derusting/Descaling				Special Products				
Product	SurTec 001	SurTec 005	SurTec 010	SurTec 011	SurTec 101	SurTec 102 SFT	SurTec 042	SurTec 026	SurTec 055	SurTec 104	SurTec 120	SurTec 121	SurTec 128	SurTec 151	SurTec 143	SurTec 174	SurTec 188	SurTec 414	SurTec 469	SurTec 472	SurTec 473	SurTec 902	SurTec 908	SurTec 930	SurTec 932	
Type	neutral cleaner	neutral cleaner	neutral cleaner	neutral cleaner	spray/soak cleaner	spray/soak cleaner	spray/soak cleaner	acid	neutral with solvent	weak alkaline, hydrophobic	neutral	weak alkaline with silicate	high alkaline	alkaline with silicate	alkaline with silicate	alkaline with silicate	high alkaline with silicate	neutral activator-builder	acid cleaner	acid cleaner, builder	acid cleaner	defoamer, chloride-free	defoamer	demulsifier	demulsifier, chloride-free	
Form	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	powder	liquid	powder	powder	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid
Foam	demulsifying	demulsifying	demulsifying	demulsifying	demulsifying	demulsifying	demulsifying	emulsifying	emulsifying	emulsifying	emulsifying	emulsifying	emulsifying	emulsifying	emulsifying	demulsifying	demulsifying	slightly emulsifying	-	-	-	demulsifying	-	-	-	-
Process	spray cleaning, high pressure spray cleaning	spray cleaning	spray cleaning, high pressure spray cleaning	spray cleaning	soak cleaning, ultrasonic, spray cleaning, injection flood washing	soak cleaning, ultrasonic, spray cleaning, injection flood washing	soak cleaning, ultrasonic, spray cleaning, injection flood washing	soak cleaning, ultrasonic	soak cleaning, ultrasonic, manual cleaning	soak cleaning, ultrasonic	steam jet, brushes, foam and manual cleaning	steam jet, brushes, foam and manual cleaning	soak cleaning, ultrasonic	soak cleaning, ultrasonic	spray cleaning	spray cleaning	soak cleaning, ultrasonic	ultrasonic, spray cleaning injection flood washing	soak cleaning, spray cleaning, ultrasonic cleaning in place	soak cleaning, ultrasonic, spray cleaning, injection flood washing	brushes, injection lance and manual cleaning	-	-	-	-	
Material	all ¹	all ¹ , (Al ⁵)	all ¹	all ¹	all	all ¹ , (Al ⁵)	Fe ² , stainless steel, Mg	all ¹ , (Fe ²⁻⁵)	all ¹	all ¹	all ¹	all ¹	all ¹	Fe ² , stainless steel, Mg	all ¹ , Mg	all ¹	all, Mg	Fe, stainless steel, Mg	Fe, stainless steel, aluminium	Fe ² , stainless steel	Al, non-ferrous materials ³ , Fe ² , stainless steel	stainless steel, aluminium	-	-	-	-
Remarks	salt-free		contains biocide	salt-free	salt-free	salt-free	salt-free	organic acids	free of aromatic hydrocarbons	spotless corrosion protection after rinsing	surfactant cleaner	aircraft release				de-coaling properties		free of hard complexing agents	———— inorganic acids ————	contains inhibitor	inorganic and organic acids	silicone-free	silicone and chloride-free	———— splits cooling lubricants and saponified oils ————		
Hints		replenishment based on conductivity	sprayable application above 20 °C		———— proven for heat treatment ————				heavy duty cleaner, aerospace industry-approved	polishing paste removal	excellent floor cleaner	aircraft cleaner	paint removal	———— high cleaning ability for delicate materials ————	excellent cleaner for engine overhauls	refurbishment of marine components of engines	+ adequate surfactant, cleaning after	CIP-cleaning	+ adequate surfactant	cleaning of rail vehicles			———— recycling of cleaning baths and extension of service life ————			
Corrosion protection	with	with	with	very good	very good	very good	very good	without	without	with	without	without	without	without	without	without	without	without	without	without	without	without	without	without	without	without
pH ⁴	8	9	8	8	7-8	9	11	2-3	10-11	8	7	10	13	11-12	11-12	12.5	13	5.5-7	1-2	1-2	1-2	-	-	5-8	5-8	
c [%]	1-5	1-3	1-4	1-3	1-4	1-4	1-4	1-4	2-conc.	3-5	0.5-8	5-20	5-20	2-5	1-3	1-2	3-5	8-20	3-15	2-5	3-50	0.05-1	0.05-2.5	0.05-1	0.05-1	

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