

TECHNICAL INFORMATION

HAKUPUR 445-1 cleaning concentrate

Fields of application:	<ul style="list-style-type: none">- for parts of iron, steel, cast, non ferrous heavy metals and aluminum and its alloys with a high silicium content- for the interim and final cleaning in one or multi-chamber washing plants- by spray wash or flowing process- at use prior to painting processes all parameters have to be coordinated with our laboratory	
Properties:	<ul style="list-style-type: none">- low alkaline in the application- cleans, degreases and passivates in one single working step- leaves on the parts a water soluble, transparent corrosion protection film- demulsifying	
Handling:	concentration:	depending on the degree of contamination and the desired corrosion protection 0.5 - 5 %
	temperature:	35 - 70 °C
Bath Control:	Titration by means of pH meter:	
	Receiver:	20 ml
	Titration agent:	0.1 n hydrochloric acid
	Final point:	pH 3.5
	Factor:	0.333 (in demin. water)
	Determination of concentration by titration of the bath solution:	
	Receiver:	50 ml
	Indicator:	bromophenol blue
	Titration agent:	0.1 n hydrochloric acid
	Factor:	0.150 (industrial water) 0,160 (deionised water)
Technical Data:	appearance:	brown liquid
	density (20 °C):	1.086 ± 0.01
	pH-value conc.:	9.1 ± 0.5
	pH-value 1 %age:	8.1 ± 0.5
	pH-value 1 %age:	9.1 ± 0.5 (in demin. water)
Durability:	24 months at +5 - +50 °C, store dry and closed	
Compl. Literature:	EU-Material safety data sheet	
Disposal:	Waste-key-number: 070601 Contaminated solutions have to be leaded to an appropriate waste water treatment.	

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