

# Technical Information

## hebro®lan TSA 200

water-miscible, highly alkaline, liquid cleaner

### Characteristic structure

Lye	Phosphate	Silicate	Borate	Amine	Tenside
X	X	-	-	-	-

hebro®lan TSA 200 is a highly alkaline cleaner for use in immersion and spray cleaning systems. It can be used to clean iron, steel and stainless steel.

### Properties

- Removes heavy dirt such as grease, rust, paint, scale and soap.
- There should be a subsequent rinsing of the parts.
- Can possibly be used as a fluoride-free pickling for aluminum materials.
- Can be used as a system cleaner.

### Technical Data

Appearance	Odor	pH-value 1%	Bulk density at 20°C	nD25
yellowish	perceptible	>14,0	1,45 g/cm <sup>3</sup>	1,4270

### Monitoring

Volume	Indicator	Titration	Factor	Calculation
1 ml	Test indicator 2	Test Solution 45	1,4	ml Titration x Factor = Vol%

### Bath control

	Spray	Immersion	System cleaning
• Concentration:	3-10%	10-20%	5-10%
• Temperature:	30-95 °C	up to 95°C	Ambient - 70°C
• Process Time:	2-10 minutes	5-20 minutes	4-8 hours
• Spray pressure:	1-3 bar	1-3 bar	

### Information

The maximum shelf life in the original sealed container is 12 months from the date of production. The product should be stored frost-free between 5-40°C. Empty containers can be disposed via our Interseroh system.

The information given in this data sheet is based on the properties and possible applications known to us. In general, however, no legally binding nature can be derived from these data. We reserve the right to make changes to the product if these are necessary due to legislation or loss of raw materials.