

BONDERITE S-FN 5081

Known as P3-prevox 5081

November 2020

PRODUCT DESCRIPTION

BONDERITE S-FN 5081 provides the following product characteristics:

Technology	Industrial Cleaner
Product Type	Corrosion protection, oil-free
Application	Temporary corrosion protection agent
Concentration	10 to 30 g/L
Operating Temperature	20 to 80 °C spray process

BONDERITE S-FN 5081 is an aqueous temporary corrosion protection agent applicable in spray and immersion processes from 20 °C onwards. It is composed of organic corrosion protection components. Change of colour is caused by raw material and has no impact on performance.

Application Areas:

Passivation of steel and cast iron for subsequent storage in closed warehouses.

BONDERITE S-FN 5081 is used in immersion and spray systems, especially in the last stage of multiple zone systems. It also can be used for:

- Water for leak testing hollow parts, e.g. radiators, fuel tanks, intake manifolds, cooling systems and silencers
- Cooling water circuit on engine test benches
- Cooling water for induction hardening
- Mildly alkaline solutions as well as neutral cleaner solutions for improving the corrosion protection.

TECHNICAL DATA

Appearance	clear, yellowish liquid
Density at 20°C, DIN 51757	~1.12 g/cm ³
pH-value (20% solution):	~9.3

DIRECTIONS FOR USE**Preliminary Statement:**

Prior to use it is necessary to read the **Safety Data Sheet** for information about precautionary measures and safety recommendations. Also, for chemical products exempt from compulsory labeling, the relevant precautions should always be observed. Please also refer to the local safety instructions and contact Henkel for analytical support.

Bath Make-up:

Add the required amount carefully to the circulation system.

Concentration	10 to 30 g/L
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Operating Data:

Temperature	20 to 80°C
Duration of treatment	0.5 to 3 min

Longer duration of treatment as mentioned above may cause discolouration on non-ferrous metals.

Bath Control:

BONDERITE S-FN 5081 solution is controlled by titration of the alkalinity.

Feed, mL	100 mL
Titrant:	0.5 N hydrochloric or 0.5 N sulphuric acid
End point:	pH 3.6
Indicator:	Methyl orange
Titration factor (TF)	1.8 g/L x mL

- With a pipette transfer 100 mL bath solution into a clean 300 mL Erlenmeyer-flask.
- Add 4 to 5 drops of indicator.
- Titrate the solution with 0.5 N hydrochloric or 0.5 N sulphuric acid.
- The endpoint will be shown by a colour change from orange to red (pH: 3.6).
- Multiply the consumption of the acid solution with the titration factor (TF), to get the concentration in g/L
- Divide this by 10 to get the value in %.

Additional Directions:

Corrosion protection is increased, if deionized water instead of tap water is used and the work pieces are stored at low relative air humidity and shielded against weather exposure.

Classification:

Please refer to the corresponding **Material Safety Data Sheets** for details on:

Hazards identification
Transport information
Regulatory information

Storage:

Recommended Storage Temperature	-10 to 40°C
Shelf-life, months	24
Frost-Sensitive	yes

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Reference 0.1