

# BONDERITE C-MC 181

Known as Progal G 181 DR  
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## PRODUCT DESCRIPTION

BONDERITE C-MC 181 provides the following product characteristics:

<b>Technology</b>	Maintenance Cleaner
<b>Product Type</b>	Acidic Cleaner
<b>Application</b>	Descaling of phosphatation levels

BONDERITE C-MC 181 is a chemical compound formulated for the circulation descaling of the crystalline phosphatation level (process or step) of a surface treatment tunnel. Only the level (process or step) constructed from stainless steel can by descaled using BONDERITE C-MC 181.

## TECHNICAL DATA

Appearance	clear yellow liquid
Density at 20°C (DIN 51757)	~1.4
pH-value	<1

## DIRECTIONS FOR USE

### Preliminary Statement:

Prior to use it is necessary to read the **Material 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.

### Application:

Concentration	
Spraying levels (processes or steps)	5 to 10 %
Soaking (immersion or dip) levels (processes or steps)	10 to 20 %

### Operating data:

Temperature:	ambient to 50 °C
Treatment time:	1 to 6 hrs depending on the degree of scaling of the level (process or step).

Operating method in the case of spraying:

Drain the phosphatation bath. Remove residue and rinse with a hose.  
Turn the spraying ramps towards the walls.  
Fill the bath with water.  
Add the BONDERITE C-MC 181.  
Switch on spray system.  
Check whether descaling is finished by observing the appearance of the spray at a very low pressure

(approximately 0.3 bar).

If the spray is correct, drain the level and rinse with a hose, and the tank.

It is necessary to rinse until a pH value of between 5 and 7 is obtained from the rinse water.

Then refill the phosphatation bath.

### Bath Monitoring:

BONDERITE C-MC 181 is controlled by the following analysis:

Feed	10 mL
Titrant:	1 N NaOH
Indicator:	Methyl orange
End point:	colour change

- Pipette 10 mL bath solution into a beaker.
- Add 100 mL distilled water.
- Add 3 to 5 drops of indicator.
- Titrate with 1 N NaOH.
- The endpoint will be shown by a colour change to yellow.

For a new bath that is 10% filled, this quantity is : 12.5 +/- 0.5 mL.

### Classification:

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

**Hazards identification**  
**Transport information**  
**Regulatory information**

### Storage:

Recommended Storage Temperature, °C	-5 to 50
Shelf-life, months (in unopened original packaging)	12

### Classification:

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

**Hazards identification**  
**Transport information**  
**Regulatory information**

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