

TECHNICAL DATA SHEET

METALL-SPRAY 181 P

Spray & Immersion Degreaser / Rust Preventative

INTRODUCTION Metall-Spray 181 P is an inhibited alkaline powdered cleaner suitable for cleaning all metals.

- ADVANTAGES**
- Provides indoor corrosion protection.
 - Removes a wide range of soils.
 - Bath is not affected by hard water.
 - Can be used in mild steel equipment.
 - Low foaming

APPLICATION Removal of oils and grease from steel where temporary indoor corrosion protection is required. For a totally residue-free surface, rinse after cleaning with Metall Spray 181 P. If corrosion protection is required, dry without rinsing.

CHEMICAL & PHYSICAL PROPERTIES

Form	:	Powder
pH of 1% solution	:	11.5
Solubility	:	Complete

- OPERATING DATA**
- Solution Make Up
1. Make up working solution as follows :
 2. Fill tank 2/3 full with water and heat to about 60°C.
 3. Add weighed quantity of Metall-Spray 181 P to water slowly, with constant agitation.
 4. Add water to fill tank to working level and heat to operating temperature.

OPERATING RANGES

	<u>Spray</u>	<u>Immersion</u>
Concentration	10 - 80 g/l	10-60 g/l
Solution temp	60 - 80°C	50 - 70°C
Immersion time	2 - 15 minutes or longer	As required

Temperatures outside these ranges may be recommended for specific applications.

EQUIPMENT

Tank	Use mild steel for tanks and associated equipment.
Skimming	Provide skimming and overflow devices for best results.
Agitation	In immersion applications, agitation shortens cleaning time by removing loosened soils, especially packed-in buffing compounds.



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SOLUTION MAINTENANCE	Check Metall-Spray 181 P concentration by titration analysis. Maintain working solution at proper concentration with required additions of Metall-Spray 181 P compound.
ANALYTICAL CONTROL	Metall- Spray 181 P titration analysis. Reagents : 1.0 N acid Phenolphthalein indicator Procedure : Pipette 100 ml of working solution into 250 ml Erlenmeyer flask. Add 2 to 4 drops of phenolphthalein indicator. Titrate to colourless endpoint with 1.0N acid. Calculation : Metall-Spray 181 P g /litre = ml 1.0N acid x 2.5 Caution : Metall-Spray 181 P is alkaline and can cause irritation to the skin. Exercise caution in its use. Avoid contact with skin, eyes and clothing. Carefully read precautionary and first-aid information on container label.
SAFETY DIRECTIONS	Refer to Material Safety Data Sheet for Safety Directions & First Aid Instructions.

Ref : VH/5/06/CM Aust/4-06/S2

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