

## AvestaPolarit Welding



CHRYSSAFIDIS

## Pickling related products

**Features**

The pickling process must often be completed with a pre-treatment, an after-treatment and a waste treatment to reach the required result and to meet environmental requirements.

In addition to the wide range of active pickling products AvestaPolarit Welding offers surface treatment chemicals for all steps in the pickling process: a cleaner to remove organic contaminants prior to pickling, a passivating agent to accomplish the after-treatment and a neutralising agent to handle the waste water.

The product range also includes the following items: A first aid for workers safety, a drop test to distinguish different stainless steel grades, a pickle pump, and different brushes.

**Products and equipment**

- **Avesta Cleaner 401** removes organic contaminants that will inhibit the pickling. The cleaner also improves the surface finish by removing rust and creates a brighter surface.
- **Avesta Neutralising Agent 502** provides a simple method for handling the acidic waste water after rinsing. By adding this product, the waste water will get an adjusted pH-value of 7 to 10, and the dissolved metals such as chromium and nickel will be precipitated.
- **Avesta Passivating Agent 601** removes contaminants and iron particles from the surface. It also restores the protective chromium oxide layer and removes smut from sensitive surfaces after pickling.
- **Avesta First Aid Spray 910** is a new unique first aid solution for absorbing smaller splashes of pickling products. The spray is equally suitable for skin and eye treatment.
- **Avesta Moly Drop Test 960** is a chemical test for differentiating grade 304 from 316.
- **Avesta Spray Pickle Pump SP-25** is a low-pressure membrane pump made of acid resistant parts adapted for spraying pickling gels and chemicals.
- **Avesta Pickling Brushes** are stainless steel brushes for mechanical treatment and acid resistant brushes for correct application of pickling paste/gel.
- **Avesta Pickling Overall 905** is an acid resistant overall suitable when pickling.

**Characteristics****USAGE**

The cleaner and the passivator can be applied by brushing, spraying or dipping depending on the size of the object. The neutralising agent is added to the rinse water while stirring until a required pH-value is obtained.

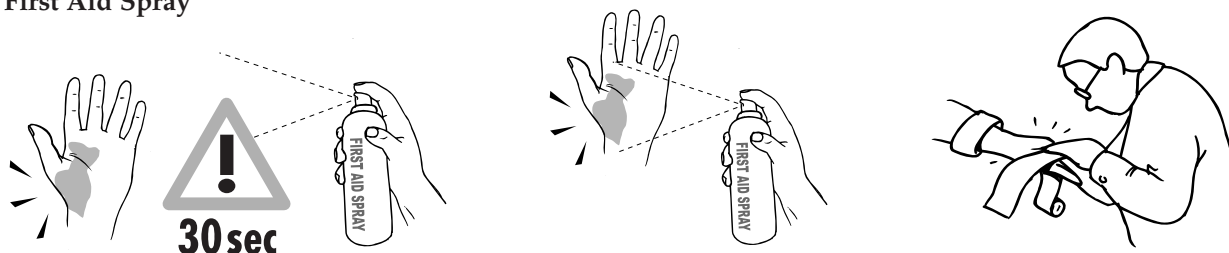


## CHEMICAL PROPERTIES

	First Aid Spray 910	Moly Drop Test 960
Composition	Active ingredient: Hexafluorine® No hazardous ingredienses	Hydrochloric acid (HCl)
Form	Liquid	Liquid
Density	1.05 kg/l	1.3 kg/l
pH	7.4	0
Flammable	No	No

## Instructions for use

## First Aid Spray



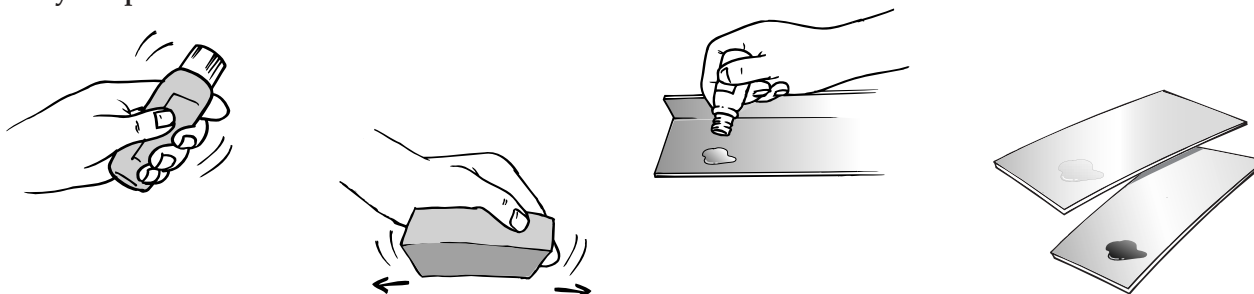
1. Apply immediately (within 30 sec) to skin or eyes that have come into contact with pickling paste, gel or spray.

2. Spray the content liberally onto the affected area, **always using the complete content of the can.**

3. Seek medical care afterwards.

When handling pickling acids in larger volumes, such as Avesta Pickling Bath, with risk of larger acid-splashes, it is necessary to use Hexafluorine® (packages of 500 ml or 5 l).

## Moly Drop Test



1. Shake the bottle well before use.

2. Rub surface with abrasive.

3. Apply 1 – 2 drops and wait 5 – 10 minutes.

4. No colour change: grade 304.  
Colour change to dark brown: grade 316.



## Pickling related products

### Packaging

#### Avesta Cleaner 401

is supplied in 6 kg, 28 kg, 205 kg and 1100 kg containers.

#### Avesta Neutralising Agent 502

is supplied in 7 kg and 36 kg containers.

#### Avesta Passivating Agent 601

is supplied in 28 kg, 205 kg and 1100 kg containers.

#### Avesta First Aid Spray 910

is supplied in 200 ml spray cans.

#### Avesta Moly Drop Test 960

is available in 30 ml bottles (~200 tests).

### Other information

For further information see also "Avesta Pickling Handbook", "Avesta Guidelines for Planning and Designing a Pickling Workshop" as well as Material Safety Data Sheets (MSDS) for the products.

### Storage

All pickling chemicals should be stored indoors at room temperature. Containers must be kept properly closed, in an upright position and inaccessible to unauthorised persons.

### Worker safety

**Protective clothing.** Users should wear acid resistant overall, gloves, rubber boots, goggles or face visor.



*Personal protection equipment.*

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