



**MINT**

CLEANING AND DECOATING



ECOLOGICAL CLEANING SOLUTIONS

 SWISS QUALITY



## CLEANING AND SURFACE PREPARATION

Extension of the service life of striking dies and printing plates used in the manufacture of coins and banknotes.

### COMPATIBILITY:

- High-speed steels: HSS, PM-HSS, HSS-E, HSS-CO
- Tool steels
- Stainless steel
- Copper

### COATINGS:

- Tin, TiCN, TiC;
- AlTiN; AlTiSiN;
- AlCrN
- CrN

## DÉTERGENTS ET PRÉPARATION DE SURFACE

PRODUCT	pH	TYPE	FUNCTION	APPLICATION/CONTAMINATION
DECOCLEAN 540 <sup>1 2</sup>	13.9	Detergent	Spray or ultrasonic process	Cutting oil
RODACLEAN 2018	14			Polishing compounds, soluble oil, light pollutions
GP 17.40 SUP	9.9	Powdered detergent	Ultrasonic cleaning	Copper cleaning
RODASTEL 30	0.5	Finishing detergent		Deoxidation, neutralization and activation of surfaces
KORROSTOP 5000	12.3			Corrosion protection

<sup>1</sup> Requires an oil separator

<sup>2</sup> Sans phosphates

## DECOATING PRODUCTS

PRODUCT	pH	TYPE	FUNCTION	SAFE DECOATING
FERRODEC 56	7.5	Decoating (powder)	Stripping of PVD/CVD coating	Non-flammable Non-toxic under CLP compliant
EXCARBONITE 222	11.5			

## SURFACE PREPARATION OF THE DIE'S STRIKING CORNER BEFORE VACUUM PVD COATING.

RODACLEAN 2018 and KORROSTOP 5000

- Process : Surface preparation with Rodaclean 2018 and anti-corrosion finish with Korrostop 5000, compatible with vacuum deposition processes.



## SURFACE PREPARATION OF COPPER-PLATED PRINTING PLATES BEFORE PHYSICAL VAPOR DEPOSITION (PVD)

GP 17.40 SUP

- Process : Surface preparation of copper-coated plates before vacuum chromium deposition.



## DECOATING OF TOOL STEEL, HSS, STAINLESS STEELS

- powdered products for quick and efficient decoating
- suitable for all types of steel
- shiny Effect

### FERRODEC 56

Neutral powder for decoating Ti, AlTi- based coatings from steel tools.

#### Advantages:

- cost-effective
- fast and efficient decoating of thick layer thicknesses

#### DECOATING

**FERRODEC 56**  
+ Hydrogen Peroxide

DI water  
Conc.: 30-200g/l  
Temp.: 60-80°C  
140-176°F  
Time: 1-5 h

TAP WATER RINSE

Temp.: 20-30°C  
68-86°F  
Time: 2-3 min

DI WATER RINSE

Temp.: 30-40°C  
86-104°F  
Time: 2-3 min

DRYING

### EXCARBONITE 222

Strongly alkaline powder for decoating Cr- and Si-based layers from steel tools.

#### Advantages:

- decoating temperatures up to 70°C possible
- very efficient on Cr-, Si-layers and DLC(Cr) and DLC(Si)-layers

#### DECOATING

**EXCARBONITE 222**

DI water  
Conc.: 100-150 g/l  
Temp.: 40-70°C  
104-158°F  
Time: 5 min - 48 h

TAP WATER RINSE

Temp.: 20-30°C  
68-86°F  
Time: 2-3 min

#### NEUTRALISATION

**RODASTEL 30**  
Tap water

Conc.: 3-5%  
Temp.: 30-60°C  
86-140°F  
Time: 2-3 min

DI WATER RINSE

Temp.: 30-40°C  
86-104°F  
Time: 2-3 min

US

## SUPPORT

- NGL Academy:** training on precision cleaning, passivation, water treatment, and HSE regulation
- Decoating Center :** NGL develops and provides decoating solutions and services for a wide range of tools and parts with different vacuum coatings
- Worldwide and local implementation**

## ISO CERTIFICATION\*

- ISO 9001 - Quality
- ISO 14001 - Environment
- ISO 45001 - Health and safety at work

\*Applicable to the production site at NGL Cleaning Technology SA



Find all our products and application notes specific to Mint on our website.



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