



Application/product description

Treatment of stainless steel surfaces using the immersion process

Removal of oxides, especially tarnish or other discolorations as well as rolling/welding scale, corrosion, extraneous rust and ferritic indentations. Supplied as a concentrate (max. dilution 1:1)

Individual characteristic

In an optimal temperature range of 20°C to 40°C, this acidic pickling agent is extremely versatile

Simple and effective pickling despite the use of hydrofluoric acid, resulting in improved

Surface quality that is free of ferrite

Significantly reduced NOX emissions

slightly longer reaction time in reactions with higher alloyed material grades

Removal of machining-related oxide layers on stainless steel

Acid concentration



Response time

at least 60 to 420 min.

depending on the material and bath temperature, the material and the desired surface quality **result**



metallically pure surface with a satin to glossy appearance



Materials to be treated

austenitic stainless steels, duplex



Recommended accessories

Surface cleaner or alkaline degreaser

High pressure cleaner

Diving baskets

Beech Swans

Personal protective equipment

General instructions for use

- The respective product must be tested for suitability before use (pre-test)
- Remove dirt, grease or oil residues before treatment with acidic cleaner (Pelox Surface Cleaner FR-D) or alkaline degreaser (Pelox Cleaning and Degreasing Agent AR 90)
- Optimum surface qualities and pickling times require intelligent bath management. This requires knowledge of the acid content and metal enrichment (iron content) in the pickling bath
- We can prepare these analyses on request in order to optimally adjust the sharpening concentrate to your quality requirements
- Avoid direct sunlight and high ambient temperatures (recommended storage and processing temperature: 5 – 25 °C)
- Observe safety data sheet and wear personal protective equipment
- Ensure proper wastewater treatment and disposal of residual materials
- All information is non-binding - subject to change



PHYSICAL AND CHEMICAL PROPERTIES

State of aggregation:	fluid
Form:	fluid
Color:	colorless
Odour:	stinging
pH value:	0,5
Density at 20 °C:	1,3 g/cm ³

LABELLING ACCORDING TO REGULATION (EC) NO. 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:	GHS05 GHS06		
Signal word:	Danger		
Hazardous components:	sulfuric acid		
	Nitric acid ...	% [C ÷ 70%]	
	Hydrofluoric acid		

DANGER AND SAFETY INFORMATION

Hazard warnings:

H290; H301+H331; H310; H314

May be corrosive to metals. Toxic if swallowed or inhaled. Fatal in contact with skin.

Causes severe skin burns and eye damage.

Safety instructions:

P260; P280; P303+P361+P353; P305+P351+P338; P310; P403+P233

Do not breathe mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if possible. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Store in a well-ventilated place. Keep container tightly closed.

Additional hazard characteristics:

EUH071

Corrosive to the respiratory tract.





Application/product description

Additive for pickling baths made from hydrofluoric/nitric acid mixtures
Reduces nitrous emissions
Stabilizes heavily used pickling baths

Individual characteristic

Particularly suitable for immersion pickling baths in work areas without additional exhaust air technology



Reaction time Before

use, a Pelox pickling bath analysis must be carried out. Distribute the product evenly over the surface of the pickling bath and then mix. Observe a reaction/rest time of at least 16 hours.



Result

Low-odor pickling bath
Improved air quality in the work area



Yield depends on analysis



Recommended accessories

Personal protective equipment

General instructions for use

- The respective product must be tested for suitability before use (pre-test)
- Addition only after prior pickling bath analysis
- Avoid direct sunlight and high ambient temperatures (recommended storage and processing temperature: 5 – 25 °C)
- Observe safety data sheet and wear personal protective equipment
- Ensure proper wastewater treatment and disposal of residual materials
- All information is non-binding - subject to change



PHYSICAL AND CHEMICAL PROPERTIES

State of aggregation:	fluid
Form:	fluid
Color:	greenish
Odour:	odorless
pH value:	0
Density at 20 °C:	no data available

LABELLING ACCORDING TO REGULATION (EC) NO. 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:	GHS05
Signal word:	Danger
Hazardous components:	no



DANGER AND SAFETY INFORMATION

Hazard warnings:

H290; H314

May be corrosive to metals. Causes severe skin burns and eye damage.

Safety instructions:

P260; P280; P303+P361+P353; P305+P351+P338; P310

Do not breathe mist/vapours/spray. Protective gloves/protective clothing/eye protection/face protection

IF ON SKIN (or hair): Remove/shower immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if possible. Continue rinsing. Immediately call a POISON CENTER/doctor.

OTHER HAZARDS

Risk of slipping due to leaking/spilled product.

PBT assessment: According to information submitted in the supply chain, the mixture does not contain any substance with >0.1% considered to be PBT.

vPvB assessment: According to the information submitted in the supply chain, the mixture does not contain any substance with >0.1% considered to be vPvB.





Application/product description

Stabilized oxidizing agent based on hydrogen peroxide as a complexing agent additive for dip pickling agent T200 A

Individual characteristic

Enables the use of low-odor dip pickling solutions



processing

Pelox Top Oxidator is added to the pickling bath using an automatic dosing device or manually

The pickling bath must then be well homogenized



fertility

Before adding the oxidizer, an accurate Determination of the redox value by hand-held measuring device or by analysis in order to achieve optimal To determine dosage



Recommended accessories

Redox-Hand-Tester
Electronic measuring probe
Dosing pump

General instructions for use

- Observe safety data sheet and wear personal protective equipment
- Ensure proper wastewater treatment and disposal of residual materials
- All information is non-binding - subject to change



PHYSICAL AND CHEMICAL PROPERTIES

State of aggregation:	fluid
Form:	liquid
Color:	colorless
Odour:	stinging
pH value:	2 - 4
Density at 20 °C:	1,13 g/cm ³

LABELLING ACCORDING TO REGULATION (EC) NO. 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:	GHS05 GHS07
Signal word:	Danger
Hazardous components:	Hydrogen peroxide in solution



DANGER AND SAFETY INFORMATION

Hazard warnings:

H302; H315; H318; H335

Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation.

Safety instructions:

P280; P305+P351+P338; P310

Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if possible. Continue rinsing. Immediately call a POISON CENTER/doctor.

No additional information is available.





Application/product description

Treatment of stainless steel surfaces

Removal of tarnishing colours as well as rolling/welding scale, corrosion, extraneous rust and ferritic indentations

Individual characteristic

Chloridfrei

Dip pickling can be used in the circulation process

High economic efficiency due to long-lasting, constant strong acid concentration with regular bath care

Adaptation to individual needs possible through precise sharpening

Acid concentration



Response time

at least 30 to 360 min.

depending on the material and bath temperature, the material and the desired surface quality **result**



metallically pure surface with matt to satin-gloss appearance



Materials to be treated

austenitic stainless steels, duplex, superduplex



Recommended accessories

Surface cleaner or alkaline degreaser

High pressure cleaner

Diving baskets

Beech Swans

Personal protective equipment

General instructions for use

- The respective product must be tested for suitability before use (pre-test)
- Remove dirt, grease or oil residues before treatment with acidic cleaner (Pelox Surface Cleaner FR-D) or alkaline degreaser (Pelox Cleaning and Degreasing Agent AR 90)
- Optimum surface qualities and pickling times require intelligent bath management. This requires knowledge of the acid content and metal enrichment (iron content) in the pickling bath
- We can prepare these analyses on request in order to optimally adjust the sharpening concentrate to your quality requirements
- Avoid direct sunlight and high ambient temperatures (recommended storage and processing temperature: 5 – 25 °C)
- Observe safety data sheet and wear personal protective equipment
- Ensure proper wastewater treatment and disposal of residual materials
- All information is non-binding - subject to change



PHYSICAL AND CHEMICAL PROPERTIES

State of aggregation:	fluid
Form:	fluid
Color:	colorless
Odour:	stinging
pH value:	<1
Density at 20 °C:	1,15 - 1,20 g/cm ³

LABELLING ACCORDING TO REGULATION (EC) NO. 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:	GHS05 GHS06		
Signal word:	Danger		
Hazardous components:	Nitric acid ... Hydrofluoric acid	% [C ÿ 70%]	

DANGER AND SAFETY INFORMATION

Hazard warnings:

H290; H301+H331; H310; H314

May be corrosive to metals. Toxic if swallowed or inhaled. Fatal in contact with skin.

Causes severe skin burns and eye damage.

Safety instructions:

P260; P280; P303+P361+P353; P305+P351+P338; P310; P403+P233

Do not breathe mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if possible. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Store in a well-ventilated place. Keep container tightly closed.

Additional hazard characteristics:

EUH071

Corrosive to the respiratory tract.



Application/product description

Treatment of stainless steel surfaces

Removal of tarnishing colours as well as rolling/welding scale, corrosion, extraneous rust and ferritic indentations

Supplied as a concentrate (add water)

Also available as a ready mix and resharpeners

Individual characteristic

Chloridfrei

Dip pickling can be used in the circulation process

High economic efficiency due to long-lasting, constant strong acid concentration with regular bath care

Adaptation to individual needs possible through precise resharpening

Acid concentration



Response time

at least 30 to 360 min.

depending on the material and bath temperature, the material and the desired surface quality **result**



metallically pure surface with matt to satin-gloss appearance



Materials to be treated

austenitic stainless steels, duplex, superduplex



Recommended accessories

Surface cleaner or alkaline degreaser

High pressure cleaner

Diving baskets

Beech Swans

Personal protective equipment

General instructions for use

- The respective product must be tested for suitability before use (pre-test)
- Remove dirt, grease or oil residues before treatment with acidic cleaner (Pelox Surface Cleaner FR-D) or alkaline degreaser (Pelox Cleaning and Degreasing Agent AR 90)
- Optimum surface qualities and pickling times require intelligent bath management. This requires knowledge of the acid content and metal enrichment (iron content) in the pickling bath
- We can prepare these analyses on request in order to optimally adjust the sharpening concentrate to your quality requirements
- Avoid direct sunlight and high ambient temperatures (recommended storage and processing temperature: 5 – 25 °C)
- Observe safety data sheet and wear personal protective equipment
- Ensure proper wastewater treatment and disposal of residual materials
- All information is non-binding - subject to change



PHYSICAL AND CHEMICAL PROPERTIES

State of aggregation:	fluid
Form:	fluid
Color:	colorless
Odour:	biting
pH value:	<1
Density at 20 °C:	1,15 - 1,20 g/cm ³

LABELLING ACCORDING TO REGULATION (EC) NO. 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:	GHS05 GHS06		
Signal word:	Danger		
Hazardous components:	Nitric acid ... Hydrofluoric acid	% [C ÿ 70%]	

DANGER AND SAFETY INFORMATION

Hazard warnings:

H290; H301+H331; H310; H314

May be corrosive to metals. Toxic if swallowed or inhaled. Fatal in contact with skin.

Causes severe skin burns and eye damage.

Safety instructions:

P260; P264; P280; P303+P361+P353; P305+P351+P338; P310; P403+P233

Do not breathe mist/vapour/spray. Wash thoroughly with water after use. Protective gloves/

Wear protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin

with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if possible. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician. Store in a well-ventilated place. Keep container tightly closed.

Additional hazard characteristics:

EUH071

Corrosive to the respiratory tract.

OTHER HAZARDS

Risk of slipping due to leaking/spilled product.

PBT assessment: According to information submitted in the supply chain, the mixture does not contain any substance with >0.1% considered to be PBT.

vPvB assessment: According to the information submitted in the supply chain, the mixture does not contain any substance with >0.1% considered to be vPvB.





Application/product description

Treatment of stainless steel surfaces using the immersion process
Removal of oxides, especially tarnish or other discolorations as well as rolling/welding scale,
Corrosion, extraneous rust and ferritic indentations
Supplied as a concentrate (add water)
Also available as a ready mix and resharpeners

Individual characteristic

Contains no nitric acid - no nitrous gases in the room or exhaust air
Dip pickling can be used in the recycling process
No nitrite and nitrate in the rinse water
High economic efficiency due to long service life of the pickling bath
Adaptation to individual needs possible through precise resharpening

Acid concentration



Response time

remember 60 - 420 min.
depending on the material and bath temperature,
the material and the desired surface quality **result**



metallically pure surface with a satin to glossy appearance



Materials to be treated

austenitic stainless steels, duplex



Recommended accessories

Surface cleaner or alkaline degreaser
High pressure cleaner
Diving baskets
Beech Swans
Personal protective equipment

General instructions for use

- The respective product must be tested for suitability before use (pre-test)
- Remove dirt, grease or oil residues before treatment with acidic cleaner (Pelox Surface Cleaner FR-D) or alkaline degreaser (Pelox Cleaning and Degreasing Agent AR 90)
- Optimum surface qualities and pickling times require intelligent bath management. This requires knowledge of the acid content and metal enrichment (iron content) in the pickling bath
- We can prepare these analyses on request in order to optimally adjust the sharpening concentrate to your quality requirements
- Avoid direct sunlight and high ambient temperatures (recommended storage and processing temperature: 5 – 25 °C)
- Observe safety data sheet and wear personal protective equipment
- Ensure proper wastewater treatment and disposal of residual materials
- All information is non-binding - subject to change





PHYSICAL AND CHEMICAL PROPERTIES

State of aggregation:	fluid
Form:	fluid
Color:	colorless
Odour:	stinging
pH value:	<1
Density at 20 °C:	1,19 g/cm ³

LABELLING ACCORDING TO REGULATION (EC) NO. 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:	GHS05 GHS06
Signal word:	Danger
Hazardous components:	Hydrofluoric acid



DANGER AND SAFETY INFORMATION

Hazard warnings:

H290; H300+H310; H314; H331

May be corrosive to metals. Fatal if swallowed or in contact with skin. Causes severe skin burns and eye damage. Toxic if inhaled.

Safety instructions:

P260; P280; P303+P361+P353; P305+P351+P338; P310; P403+P233

Do not breathe mist/vapours/spray. Protective gloves/protective clothing/eye protection/face protection

IF ON SKIN (or hair): Remove/shower immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if possible. Continue rinsing. Immediately call a POISON CENTER/doctor. Store in a well-ventilated place. Keep container tightly closed.

OTHER HAZARDS

Risk of slipping due to leaking/spilled product.

PBT assessment: According to information submitted in the supply chain, the mixture does not contain any substance with >0.1% considered to be PBT.

vPvB assessment: According to the information submitted in the supply chain, the mixture does not contain any substance with >0.1% considered to be vPvB.





Application/product description

Treatment of titanium surfaces

Removes tarnish, scaling and foreign contaminants in one step

Supplied as a concentrate (add water)

Also available as a ready mix and resharpeners

Individual characteristic

Due to specially adjusted acid concentrations, particularly suitable for reactive
Surfaces such as titanium

Termination of the embrittlement process by subsequent - mandatory - passivation of the surface

Acid concentration



Reaction time

extremely short pickling time - if necessary in several stages

Observe room temperature

Preliminary test essential



Result: strong

brightening of the treated surface



Materials to be treated

Light metals such as titanium



Recommended accessories

Passivating agents

Alkaline degreaser

High pressure cleaner

Diving baskets

Beech Swans

Personal protective equipment

General instructions for use

- The respective product must be tested for suitability before use (pre-test)
- Remove dirt, grease or oil residues before treatment with alkaline degreaser (Pelox cleaning and degreasing agent AR 90)
- Optimum surface quality and pickling times require intelligent bath management. This requires knowledge of the acid content and metal enrichment (iron content) in the pickling bath We can carry out these analyses on request in order to optimally adjust the sharpening concentrate to your quality requirements Avoid direct sunlight and high ambient temperatures (recommended storage and processing temperature: 5 – 25 °C)
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- Observe the safety data sheet and wear personal protective equipment. Observe proper wastewater treatment and disposal of residual materials. All information is non-binding - subject to change.
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PHYSICAL AND CHEMICAL PROPERTIES

State of aggregation:	fluid
Form:	fluid
Color:	colorless
Odour:	biting
pH value:	<1
Density at 20 °C:	1,20 g/cm ³

LABELLING ACCORDING TO REGULATION (EC) NO. 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:	GHS05 GHS06		
Signal word:	Danger		
Hazardous components:	Hydrofluoric acid		
	Nitric acid ...	% [C ÿ 70%]	

DANGER AND SAFETY INFORMATION

Hazard warnings:

H290; H301+H311+H331; H314

May be corrosive to metals. Toxic if swallowed, in contact with skin or if inhaled. Causes severe skin burns and eye damage.

Safety instructions:

P260; P280; P303+P361+P353; P305+P351+P338; P310; P403+P233

Do not breathe mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if possible. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Store in a well-ventilated place. Keep container tightly closed.

Additional hazard characteristics:

EUH071

Corrosive to the respiratory tract.

OTHER HAZARDS

Risk of slipping due to leaking/spilled product.

PBT assessment: According to information submitted in the supply chain, the mixture does not contain any substance with >0.1% considered to be PBT.

vPvB assessment: According to the information submitted in the supply chain, the mixture does not contain any substance with >0.1% considered to be vPvB.

