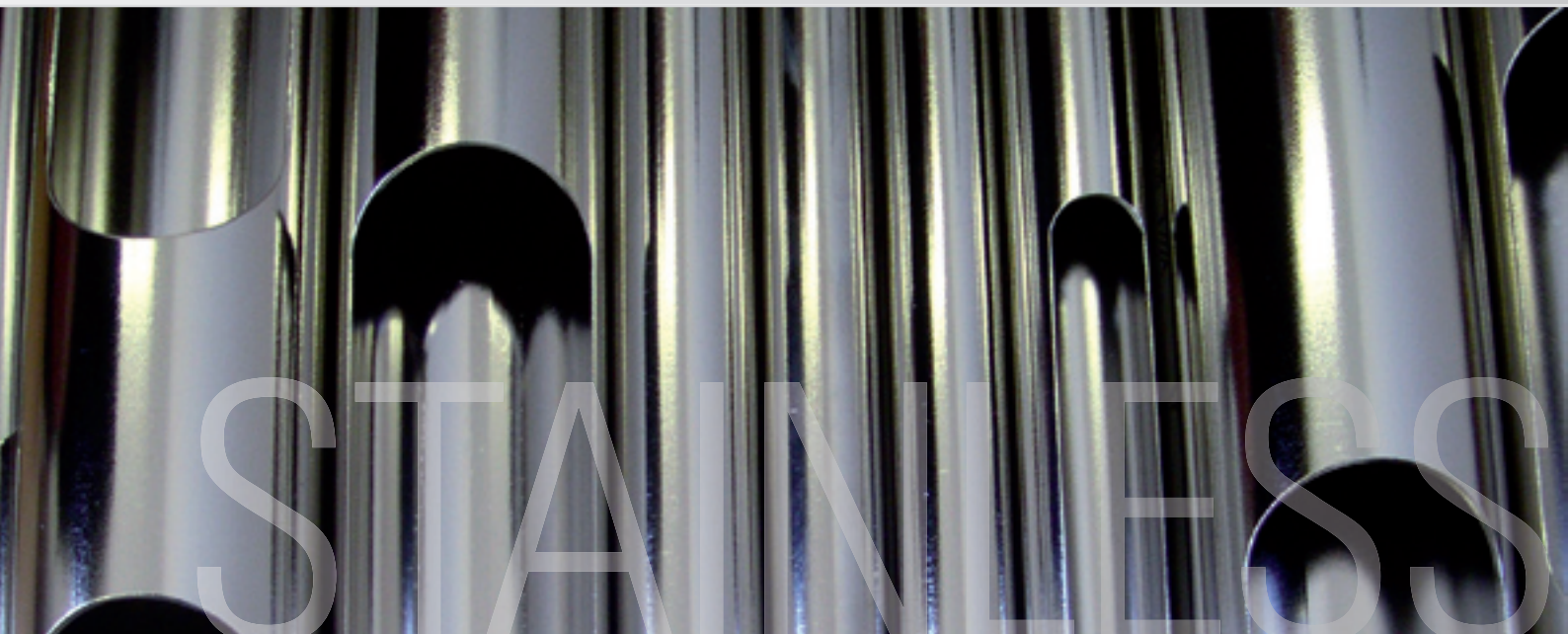


# INOKS . . .

STAINLESS STEEL SPECIALISTS



GALVANSKE OBDELAVE | GALVANIC SURFACE TREATMENT

# STEEL

[www.inoks.si](http://www.inoks.si)

# SPECIALISTS



## GALVANSKO CINKANJE

Galvansko cinkanje omogoča zaščito jeklenega materiala pred vremenskimi vplivi. V INOKS galvaniki nudimo kislno in alkalno cinkanje. Pri galvanskem cinkanju dobimo enakomeren nanos cinka na material, tudi do 20  $\mu\text{m}$ . Pri galvanskem cinkanju dobimo sivo, sijajno površino.

Na avtomatski liniji nudimo galvansko cinkanje:

- v bobnih
- na obešalih do dolžine 3500 mm

## LUŽENJE NERJAVEČIH MATERIALOV

### PREDNOSTI LUŽENJA

Luženje izboljša korozijsko odpornost nerjavečega materiala in podaljša življenjsko dobo izdelka. Pri luženju se najprej odstrani vse nečistoče iz osnovnega materiala. Ko iz materiala očistimo vse nečistoče iz por, varov, in nedosegljivih robov, se začne jedkanje vseh vnesenih ostankov črnih materialov od preoblikovalnih orodij. Tako odstranimo ferite s površine. Na osnovni površini se ustvari dodatni kromatni film, ki zaščiti vse pore v samem materialu. Tako se neprimerno podaljša življenjska doba. Ostane nam ista nerjaveča površina materiala. Izboljša se hrapavost materiala zaradi enakomernega jedkanja. Odpade predhodno brušenje materiala in ni potrebno kislinsko obdelati zvarov.

Po luženju dobimo lepo enakomerno svetlo sivo mat površino materiala. Posebej priporočljivo je luženje varjenih nerjavečih elementov zaradi čiščenja samega zvara in vnesenih nečistoč v okolici zvarnega mesta. Luženje je najugodnejši postopek površinske obdelave nerjavečih izdelkov.



## GALVANIC ZINC

Galvanic zincifying enables material protection against weather conditions. In INOKS galvanic plant we offer sour and alkal zincifying.

By galvanic zincifying we get equal alluvium of zinc, even till 30  $\mu\text{m}$ . Zincified surface has greyish, shiny appearance.

On automatic line we offer galvanic zincifying:

- in drums
- on hangers, length 3500 mm

## PICKLING METHOD

### ADVANTAGES OF THE PICKLING METHOD

Pickling improves anti-corrosive resistance of stainless materials and extends the life period of the product. Impurities are first to be removed from the basic material. After all impurities have been removed from slots, welds and inaccessible edges, the pickling process of all entered remains of black materials incurred by remodelling tools starts. So, ferrites are removed from the surface. Additional chrome film is made on the basic surface protecting all slots in the material itself. Thus the life period of the material is extraordinarily extended. Only pure stainless surface of the material remains. The roughness of the material is improved due to equable pickling. Previous grinding of material is superfluous and it is not necessary to previously treat the welds by acid treatment.

After pickling, we get a nice, even light grayish lustless surface of the material. It is especially recommendable to pickle welded stainless elements because of cleaning the welds themselves as well as because of entered impurities round the welds. Pickling is the most suitable method for treatment of welded areas.





# ELEKTROPOLITSKO POLIRANJE

## PREDNOSTI ELEKTROLITSKEGA POLIRANJA

Čistoča in kakovost elektrolitsko polirane površine je najboljša. Hrapavost površine se izboljša in znaša v standardni kakovosti (Ra 0,6 – 0,8  $\mu\text{m}$ ) ali v PHARMA kakovosti (Ra 0,25 – 0,4  $\mu\text{m}$ ). Elektropolirana površina ima svetel, bleščeče sijajen izgled. Pri elektrolitskem poliranju odstranijo vse nečistoče iz osnovnega materiala. Odstranijo se vsi vneseni ostanki feritov od preoblikovalnih orodij. Ostane samo čista nerjaveča površina materiala, kateri se neprimerno podaljša življenjska doba. Zmanjšanje mikro površine materiala tudi do 10x, kar neprimerno izboljša kakovost in hitrost čiščenja materiala ter manjša poraba vode. Ostre pore se zgladijo in očistijo.

Elektrolitsko poliranje je boljši postopek od mehanskega poliranja zaradi čistoče površine. Pri mehanskem poliranju se vnesejo v pore materiala nečistoče in maščobe, ki še nekaj let po obdelavi ostanejo v materialu. Zato priporočamo elektrolitsko poliranje, kjer ostane samo čisti osnovni material po obdelavi. Oblika proizvoda pri elektropoliranju nas ne omejuje.

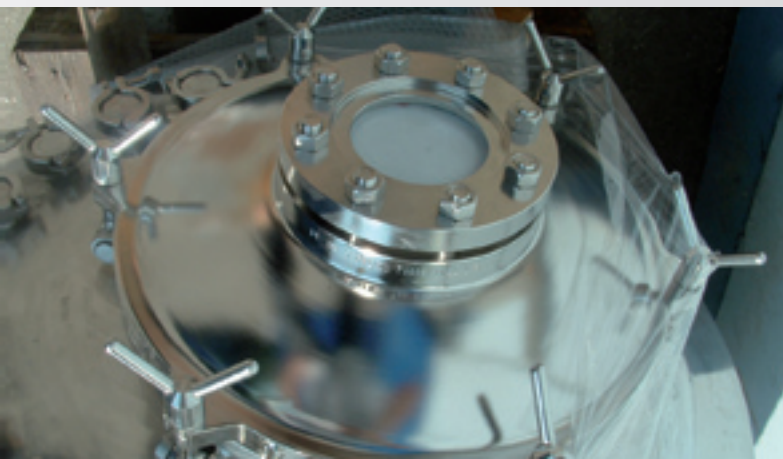
## OPIS POSTOPKA ELEKTROLITSKEGA POLIRANJA

Razpolagamo z najnovejšo tehnologijo elektrolitskega poliranja nerjavečih materialov. Poliramo vse kvalitete nerjavečih materialov. Najboljše rezultate kvalitete površine in korozijske obstojnosti dosegamo z materialom kvalitete. Wr. Nr. 1.4435.

K površinski obdelavi izdamo certifikat o kvaliteti elektrolitskega poliranja, ki vsebuje:

- izmerjeno hrapavost pred in po elektrolitskem poliranju
- izmerjeno čistočo površine in meritev feritov
- izmerjeno odbojnost svetlobe s površino, ki so elektrolitsko polirane in kvaliteto spiranja.

Oblika proizvoda ne omejuje možnosti elektrolitskega poliranja.



# ELECTROLYTIC POLISHING

## ADVANTAGES OF THE ELECTROLYTIC POLISHING

The cleanness and quality of the electrolytically polished surface is the best. The roughness of the surface gets improved and it is in standard quality (Ra 0,6 – 0,8  $\mu\text{m}$ ) or in PHARMA quality (Ra 0,25 – 0,4  $\mu\text{m}$ ). Electropolished surface has got a bright, shiny appearance. By electrolytic polishing, all impurities are removed from the basic material. All entered remains of ferrites incurred by remodelling tools are removed. Only the clean stainless surface of material remains and its life period is extraordinarily extended. The micro-surface of the material is reduced even to 10-times, and that improves extremely the quality and the cleaning speed, and reduces the water consumption. Sharp porous surfaces become smooth and clean.

Electrolytic polishing is an exceptionally better process than the mechanical polishing because of the cleanness of the surface. By executing the mechanical polishing, impurities and fat enter into porous surface of the material and remain in the material even for years. Thus, we recommend electrolytic polishing, by which the basic material remains clean after treatment. The form of the product does not represent any limitation for executing the electrolytic polishing.

## DESCRIPTION OF THE ELECTROLYTIC POLISHING METHOD

We dispose of the latest technology of electrolytic polishing of materials. We polish all kinds of qualities of stainless materials. We achieve best surface quality result and corrosion resistance with materials of Wr. Nr. 1.4435 quality.

After the executed surface treatment, we issue the certificate an electrolytic polishing quality containing the following:

- measured roughness prior to and after the electrolytic polishing
- measured cleanness of the surface and measurement of ferrites
- measured light reflectance from the surface that were electrolytic polishing.

The form of the product does not limit the possibility of polishing.



# INOKS . . .

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## RAZVOJ IN KAKOVOST

Postopke površinskih obdelav razvijamo v naših laboratorijih že več kot 15 let. Pridobljene izkušnje na področju elektrpoliranja in luženja nerjavečih materialov vključujemo pri svetovanju, kontroli in optimizaciji obdelav. Prednosti naših površinskih obdelav so fleksibilnost in kakovost po naročnikovih zahtevah. Zagotavljamo vam profesionalni odnos in kvalitetno storitev. Želimo sodelovati pri najzahtevnejših projektih.

INOKS Galvanika dokazuje svojo kvaliteto in konkurenčnost s certifikatom kakovosti BVQI ter izdanimi atesti in certifikati o meritvah

## DEVELOPMENT AND QUALITY

The procedures of surface treatment have been developed in our laboratories for more than 15 years. We include our experience in the field of electro-polishing and leaching of stainless materials in consulting, controlling and optimizing of treatment methods. The advantages of our surface treatment are flexibility and quality according to Customer's demands. We guarantee professional relations and the quality of our services. We wish to participate in the most pretentious projects.

INOKS Galvanika proves its quality and competitiveness by the Quality Certificate BVQI as well as by the issued attestations and measurement certificates.