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ENERJEX - 120/130/140 Pickle Paste



- Enerjex 120 Low Strength
- Enerjex 130 Moderate Strength
- Enerjex 140 High Strength

The Enerjex range of pickle pastes have a texture that is less viscous than other paste to allow for better penetration of the weld and HAZ, particularly in the "toes" of the weld. This feature results in a cleaner weld and rapid pickling times compared to other brands.

Enerjex 120 has been formulated to operate at the lower end of the corrosion resistant gradient. It is particularly suitable for the pickling of 3Cr12 grade steels (EN 1.4003) and also aluminium grades.

Enerjex 130 - Moderate strength general pickling to brighten the surface of stainless steel, can be used for pickling surfaces that have rust contamination from tooling marks, grinding/ plasma cutting operation, Oxide/heat bloom.

Enerjex 140 - High strength, specifically designed for use with Thick Section 300 series stainless steel and in particular Duplex family plus difficult Nickel alloys such as Hastelloy C22, C276 and Inconel 625. High Moly grades.



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ENERJEX - 230 Spray / 301 Immersion



Enerjex 230 EXTRA spray pickle gel is a very aggressive pickling acid. It has been particularly designed to be used on Duplex family stainless steels. Its texture lends itself to spray application along weld seams and larger surfaces such as whole ves-

Enerjex 230 spray pickle gel is a less aggressive pickling acid than its close relative Enerjex 230 Extra. It has been particularly designed for use on 300 series stainless steels such as 304 and 316 grades. It can also be used on duplex steel and Nickel alloy steel.

Enerjex 301 Pickle Liquid is a liquid pickling solution with no specific texture and has a water like consistency (low viscosity), designed to have items immersed in it. It can be blended and designed to be used on any grade of steel



Enerjex 360 is a concentrate for making additions to an existing pickling solution such as Enerjex 301 to help "spike" the strength. It is used during cold conditions where the existing solution may be struggling to etch at a quick rate or the grade of steel to be pickled is particularly inherently corrosion resistant and needs a more aggressive pickle.

sales@stainrest.com

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SRL Laboratory Services



The SRL laboratory is located at our main facility in Hyde, Manchester. We provide analytical and surface metallurgical services, including R/D provision to both our numerous in-house processes, and customers on-site across the UK.

We specialise in chemical analysis for metal surface treatment processes and industrial effluent treatment units. We recognise that regular testing of these facilities is vital for meeting designated process specifications as well as environmental discharge regulations. To support your needs we can provide independent analysis reports on demand, or be integrated into your process control scheme.

- Quantitative Chemical Analysis
- Chemical Engineering
- Surface Metallurgy

Our expertise enables us to meet the most stringent of specifications which makes us the first choice supplier for many major OEM companies in the UK

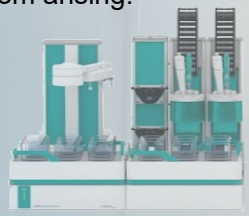
Adamson's Ind Est
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Hyde, Manchester
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Quantitative Chemical Analysis

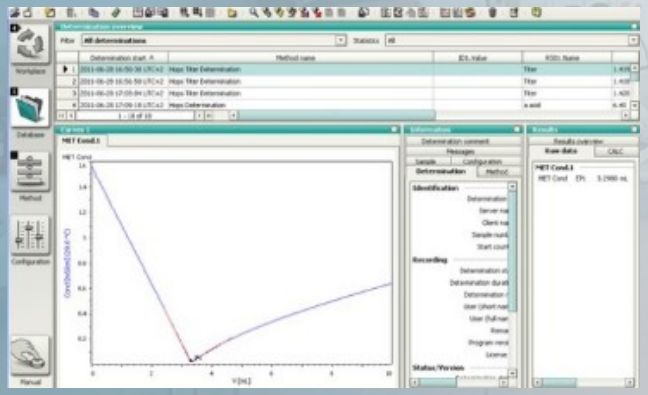
A chemical process line requires regular control to ensure adherence to specification.

Stainless Restoration has the experience to quickly diagnose issues and provide solutions. Regular monitoring is key to preventing problems from arising.



- **Metal content**
- **Gravimetric**
- **Conductivity**
- **Colorimetric**
- **pH**
- **Ions**
- **Acid concentration**
- **Active constituent concentration**

The process will involve an initial site visit, or you can send your samples to us for preliminary analysis. This will be followed up by a comprehensive report on the root-cause, including possible remedial work solutions.





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Chemical Engineering

Chemical Engineering is at the heart of what we do here at Stainless Restoration. We provide services to customers in the commercial, automotive, aerospace, pharmaceutical, nuclear and defence sectors.



We specialise in building new process lines and expanding existing processes for metal surface finishing – providing expert advice or taking the lead with process designs.



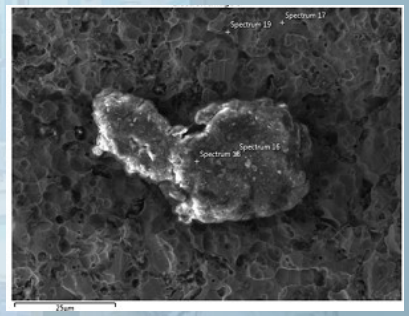
Following recent expansions the laboratory will continue to grow and allow us to develop innovative techniques keeping us at the forefront of the field.

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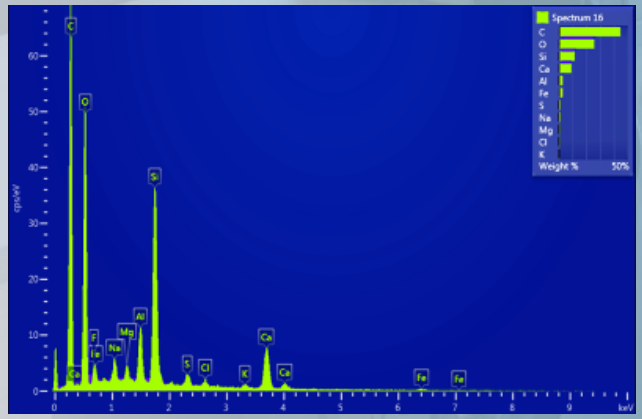
Surface Metallurgy

By examining the relationship between surface characteristics, materials composition and the process history we are able measure the efficacy of your processes to stringent specifications.

- √ Optical and Electron Microscopy
- √ Surface elemental analysis
- √ Surface roughness
- √ Chemical residue



Alternatively these methods can also be used to remediate problematic processes by analysing the non-conforming surfaces. Features such as pitting corrosion or cracking can be determined with hun-



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