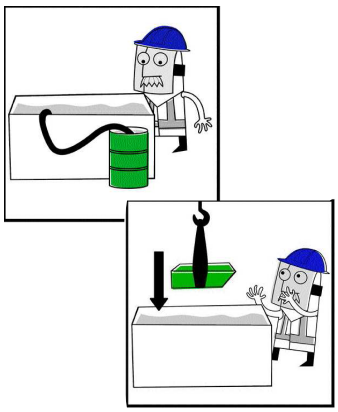
STAINLESS RESTORATION LTD

PICKLE LIQUID - ALL STRENGTHS

enerjex 301

PRODUCT:	ENERJEX 301 PICKLE BATH
APPLICATION:	200, 300, 400 SERIES STAINLESS STEELS DUPLEX STAINLESS STEELS NICKEL ALLOYS TITANIUM ALLOYS FOR SUITABILITY ON OTHER METALS PLEASE CONSULT OUR SALES DESK

GENERAL:



IMMERSION TIMES MAY CHANGE ACCORDING TO MATERIAL GRADE AND BATH TEMPERATURE. NB; as the bath strength decreases then the pickling times will need to be extended. Regular maintenance of the bath will ensure consistent pickling times/results

ENERJEX 301 PICKLE LIQUID is a liquid pickling solution designed for descaling stainless steels and other grades as listed above.
It can be blended and designed to be used on any grade of steel such as stainless steel 304 and 316 grades and Higher grades like Duplex 22Cr / 25Cr.
It has no specific texture and has a water like consistency (low viscosity) since, it is designed to have items immersed within it.
The strength of the acid is chosen to suit both material grade and speed of pickling required.
During the welding process the steel is raised above its oxidising temperature (~400oC) and the formation of a rainbow coloured oxide appears on the surface.
The oxide scale is/can be deleterious to the corrosion resistant properties of the stainless steel, particularly when a grade is operating close to its design limits.
Service conditions that contain levels of Chloride are particularly at risk. eg. coastal locations and offshore application.

ENERJEX 301 PICKLE BATH conforms to ASTM A380 A1.1

CHEMICAL PROPERTIES:

Composition:	Nitric acid Hydrofluoric acid Surfactant
Form:	Liquid
Density:	1.1 kg/l
pH:	0
Flash point:	-

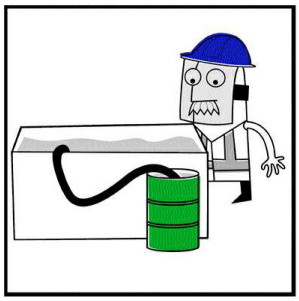


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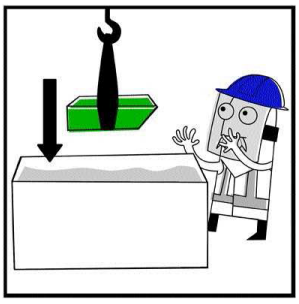
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HOW TO USE:

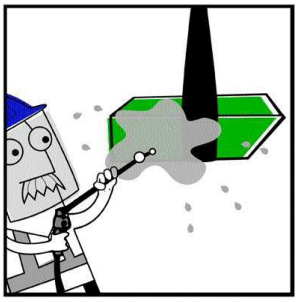


Enerjex 301 pickling Acid will be supplied in a strength "ready to go". No water additions are needed.
The strength and chemistry is blended to suit the application its intended for. Decant into a suitably constructed tank or bath. SRL also manufacture tanks.

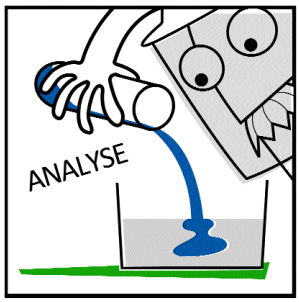


The stainless steel items can be placed in the acid pickling solution for a period of time. 304 = 30 mins, 316 = 60 mins typically. These times will change with temperature and deterioration of acid solution over its use.

PPE must be worn at all times



When the items are ready to be removed from the bath they should be washed down with clean water preferably with a HP washer. This will help to lift the corrosion debris from the surface from the pickling operation.
PPE must be worn at all times



The strength of the acid solution will need to be measured and additions made. This testing should be carried out regularly if a consistant finish is required across a period of time.

SRL can assist in this analysis as part of its after sales service.

PACKAGING: ENERJEX 301 PICKLE LIQUID is supplied in 25lt, 200lt and 1000lt containers. All containers are UN certified and carry correct labelling.

STORAGE: ENERJEX 301 PICKLE LIQUID should be stored indoors at room temperature. Containers must be kept in an upright position and the caps properly sealed and away from unauthorised persons.

SAFETY FIRST: As always when using chemicals proper protective clothing must be worn; Extra care must be taken during immersion operations.

See Safety Data (SDS) sheets. Only trained persons should use this product. SRL offer first aid antedote products to treat chemical burns

ENVIRONMENT: The waste produced after pickling needs to be collected and neutralised before entering the public sewage system. Stainless Restoration Ltd offer neutralizing products to assist in this cause. Stainless Restoration Ltd will give advice FREE of charge concerning the disposal issue. See Safety Data (SDS) sheets.

Information given in this leaflet may be subject to alteration without notice
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