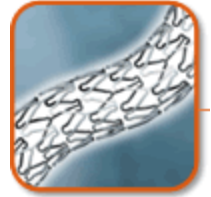




NuGenTec EP 316: Medical Device Electro Polishing Process Chemical

Applications & Description:

Electropolishing removes metal from the surface producing a unidirectional pattern that is stress-free, microscopically smooth and often highly reflective. In addition, improved corrosion resistance and passivity are achieved on many ferrous and some non-ferrous alloys. This process is used for micro- and macro-deburring, as the reverse plating process (electropolishing) removes metal ions from the high points on the surface without etching. Unlike conventional mechanical finishing systems, the electropolishing does not smear, bend, stress or fracture the crystalline metal surface to achieve smoothness and/or luster.



Process:

1. Clean using alkaline cleaner (NuGenTec NuWet DM 41) and Rinse
2. Deoxidize / de-scale / acid pickle (NuBrite C 35, 50 or NuWet DS 105) and Rinse → Optional step
3. Electro-polish and Rinse
4. Nitric acid dip and Rinse → Optional step
5. Hot Rinse (Using DI water for spot free drying) or Forced Hot Air Drying

Typical usage parameters:

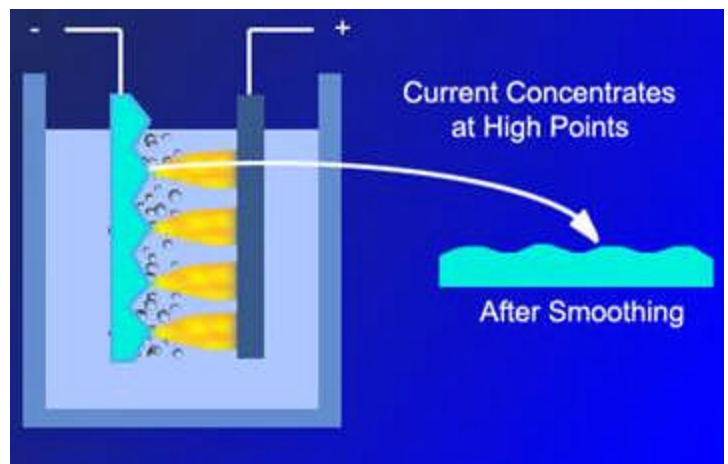
NuGenTec EP 316	
Description	Highly Acid liquid
Concentration Range	100%
Operating temps	70 to 160 °F
Immersion/ultrasonic	•
Ferrous metals	•
Non-ferrous metals	•
Stainless Steels & Nickel Alloys	•
Inconel, Monel, Hastelloy, Waspalloy	•



Before and After Example

Physical Properties:

NuGenTec EP 316	
pH, concentrate	<1
pH, @ 5% bv	1.2
Bulk Density, #/gal	13.3
VOC (at 20%bv)	Zero
Flash point	None
Solubility in water	Complete
Chelates	No
Corrosive	Yes
Phosphates	NO
Silicated	NO



Availability: ½-gallon, 1-gallon, 5-gallon, 55-gallon containers and 275-gallon tote bins.

Shipment: Freight classification: "Corrosive Liquid, NOS (Sulfuric acid, phosphoric acid) UN 1760 Class 8 Packing group III"

Storage: Keep out of direct sunlight. Keep from freezing. Store between 40-120 °F.

Disposal: Dispose of in accordance with local, state, and federal regulations. For assistance with disposal contact NuGeneration Technologies at 888-99-NuGen or e-mail: info@nugentec.com

