

# PASSIVATION OF STAINLESS STEEL COMPONENTS.



Grauer & Weil (India) Ltd. has introduced chemical process for passivation, brightening/polishing of different grades of Stainless Steel like 302, 304, 316 as per ASTM standards. ASTM A 380 involves passivation of Stainless Steel by chemical process where as ASTM A 967 involves passivation of stainless steel with electro chemical process.



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# Stainless Steel Polishing

Passivation involves removal of exogenous iron or iron compounds from the surface of stainless steel by means of chemical dissolution. Needless to mention that the process do not adversely affect the properties of stainless steel.

Passivation, Polishing/ Brightening process involves

## Removal of loose impurities -

Cleaning of different grades of oil used during forming, threading, forging operations by using alkaline chemicals, emulsion cleaners using suitable process like barrelling, ultrasonic cleaning, anodic cleaning.

## Removal of Scales -

Cleaning of oxide products from surface by using alkaline and /or acidic chemicals.

## Surface conditioning -

Making surface suitable for polishing /brightening using acidic chemicals enriched with surface active agents.

## Passivation, Polishing -

Brightening of completely cleaned and active surface using mixture of surface active agents or by electrochemical process.

\*Gictane EPSS 3015 for Electro Chemical Polishing.

## Surface Sealing -

Surface sealing is also done by using special types of wax coatings or mixture of organic acids.

### Growel recommends:

#### ASTM 380 standard.

Steelex K20 MVP - cleaning,

Gidox 281MVP - descaling,

Surpickle 506MVP & Surklin 112A - surface conditioning

Surklin 112 B - polishing

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Gibnol EPSS 3015 - electropolishing

along with range of cleaning and conditioning chemicals to meet **ASTM 967 standard.**

Grauer & Weil (India) Ltd. will provide recommendation for plants and chemical process with complete details like treatment time, treatment temperature etc.



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