

MOVING FROM CHROMATE TO NON CHROMATE PROCESS

Replacement for chromic acid anodizing (CAA) process

SALIENT FEATURES

- Modified Tartaric-sulphuric acid based process (MTSA)
- No hazardous chemicals used
- Cost is comparable to CAA
- Simple effluent treatment process
- Lower processing voltage and temperature than CAA
- Lower sealing temperature (between 60 – 80°C)
- Withstands >1000 h of salt spray test (SST)
- Self-healing property equivalent to CAA
- Useful for corrosion protection and pretreatment for paint applications
- Patent filed in India

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(a) (b) (c) (d)



(a)&(b)-CAA before and after SST
(c)&(d)-MTSA before and after SST