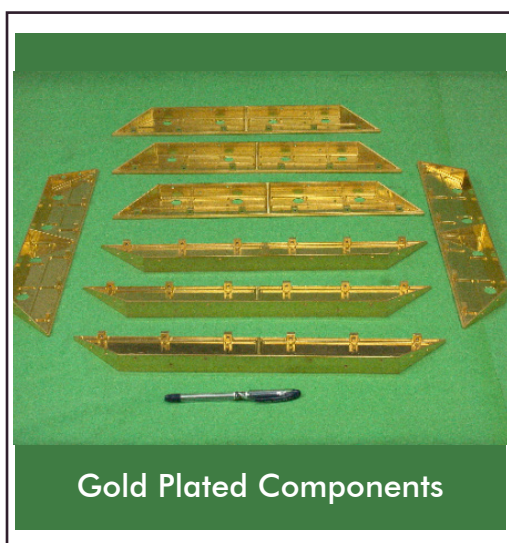


Gold Plating on Stainless Steel

U R Rao Satellite Centre (URSC) of Indian Space Research Organisation (ISRO) has developed Gold Plating Process on Stainless Steel alloys.



Salient Features

- ✦ Gold electroplating process offers a means to obtain long lasting decorative finishes, improved electric contact and conductivity, stable thermo-optical properties etc.
- ✦ Gold electroplating process offers a means to obtain long lasting surface finishes.
- ✦ Process is cyanide based, pulse plating technology.
- ✦ Withstands temperature cycling of -196°C to $+150^{\circ}\text{C}$.

Major Specifications

THICKNESS	$5 \pm 1 \mu\text{m}$ (Gold) $5 \text{ to } 10 \pm 1 \mu\text{m}$ (Ni-P)
MICROHARDNESS	$\cong 80 - 100 \text{ HV}$
IR EMITTANCE (ϵ_{IR})	< 0.05
SOLAR ABSORPTANCE (α_{S})	≈ 0.20

Technology Transfer

URSC-ISRO offers to transfer this Gold plating process technology developed by URSC to industries in India with adequate experience and facilities. Industries interested in obtaining knowhow may write giving details of their present activities, infrastructure and facilities.

Technology Transfer & Industry Coordination Division (TTID),
Programme Planning and Evaluation Group (PPEG),

📍 U R Rao Satellite Centre (URSC), ISRO, HAL Airport Road,
Vimanapura Post, Bangalore – 560 017.

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🌐 <https://www.ursc.gov.in/industry/index.jsp>