

# Pulse Hard Anodising

U R Rao Satellite Centre (URSC) of Indian Space Research Organisation (ISRO) has developed pulse hard anodizing process on Aluminium alloys. The hard anodic oxide coatings produced under special conditions have high hardness values and very good abrasion resistance compared to normal anodic coating. Hard anodic oxide coatings find application in the engineering industry for components where abrasion resistance is the required primary characteristic of the coating.



## Salient Features

Pulse hard anodizing process is carried out at +10 °C compared to conventional hard anodizing process, which is carried out at -5 oC, thus saving a considerable cooling load. The burning and powdering problems associated with conventional hard anodizing process are eliminated.

## Major Specifications

Thickness (microns)	ASTM-B-244 Eddy Current Method	60±10 Micron
Microhardness (HV)	ASTM-E 384, Diamond Indenter	250 - 500
Insulation Value (Electrical)	10-100 V Range, DC	30 - 1.5 GΩ

## Technology Transfer from ISRO

ISRO is willing to offer the knowhow of this technology to suitable entrepreneurs / industries in India. Capable manufacturing industries interested in acquiring this knowhow may write with details of their present activities, requirements and plans for implementation, infrastructure and technical expertise available with them, their own market assessment, if any, and plans for diversification to the address given below: