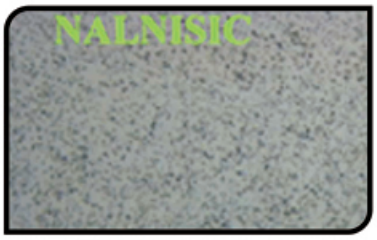
CSIR-NAL

Cost Effective Wear Reistant NI-SiC composite coating

Ni-SiC composite coating deposited by electro deposition method, tested in an indigenous 55hp rotary (Wankel) engine of UAV.

Thickness :> 150microns



Cross-section of the Coating

Microhardness :> 400VHN

Ni-Sic coating deposited on the bore of the Trochoid housing of NAL's Wankel engine

Salient Features

Coating can be deposited on any complex shape, cost effective method, flexibility in thickness and properties. Successfully flight tested in UAV, NISHANT.

Potential Applications

Wear resistant composite coatings for rotary and reciprocating engines in light weight aircraft, UAVs, micro UAV, automobiles etc.

Sunshield Mirrors

INSAT 2E
Launch : April 1999

MESATI (KALPANAI)
Launch : April September 2002

INSAT 3A
Launch : March 2003

A clear satellite photograph