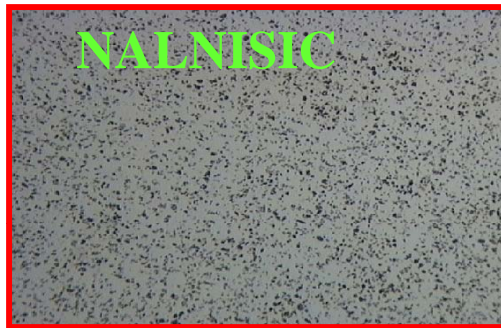


# Cost Effective Wear Resistant Ni-SiC composite coating

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

Thickness : **>150microns**

Microhardness: **>400VHN**



Cross-section  
of the Coating

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



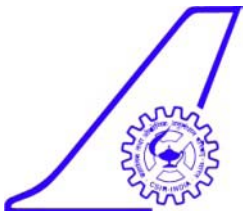
## Salient Features :

Coating can be deposited on any complex shape, cost effective method, flexibility in thickness and properties.

## Potential Applications :

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

Contact: *Head / V.K.William Grips, Surface Engineering Division*  
Email: *rajam@nal.res.in / grips@nal.res.in*



**National Aerospace Laboratories (CSIR)**  
**Bangalore – 560 017, India**

