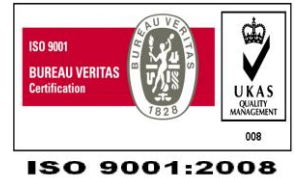




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 Vide No. TU/IV-RD/1180/2012)

T. R. No. : 14/732
 Date:-16.03 .2015

TEST REPORT

01. CUSTOMER'S NAME & ADDRESS : INTERNAL DEVELOPMENT

02. NAME & DESCRIPTION OF SAMPLE : COATED SAMPLE

03. COATING DETAILS:

	BOND COAT	TOP COAT
GUN	--	SPRAY JET
MATERIAL	--	Nickel –Aluminum
Av. THICKNESS		~ 300µm

04. POROSITY (VOLUME FRACTION) :

P:01	P:02	P:03	P:04	P:05	AVERAGE POROSITY
4.44%	3.83%	5.07%	4.11%	4.93%	4.47%

05. BOND STRENGTH (ASTM-C633) :

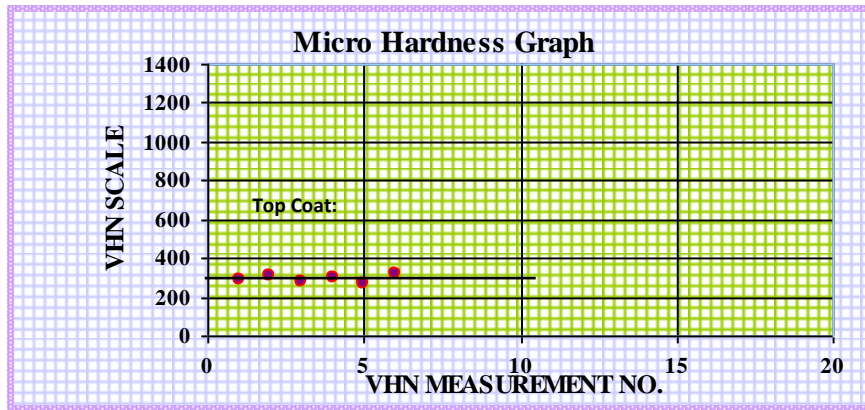
SAMPLE ID. NO.	COATING MATERIAL	BOND STRENGTH (Mpa)	RESULT
01	Ni-Al	73.69MPa	Cohesion Failure.

06. SURFACE ROUGHNESS (Ra)

Ra :01	Ra:02	Ra:03	Ra:04	Ra:05	AVERAGE Ra
14.45	15.71	13.57	14.65	14.70	14.61

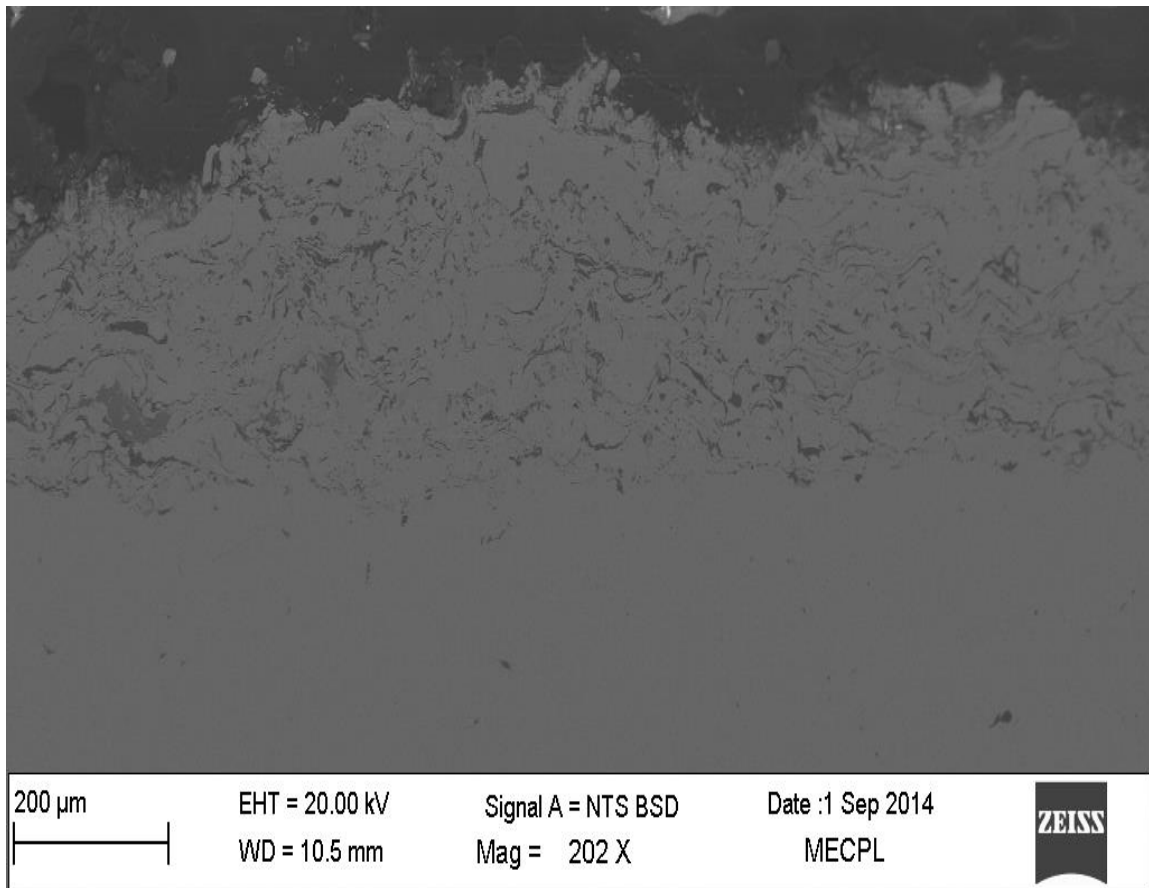
07. MICRO HARDNESS (ASTM-E384 : LOAD: 300gm) :

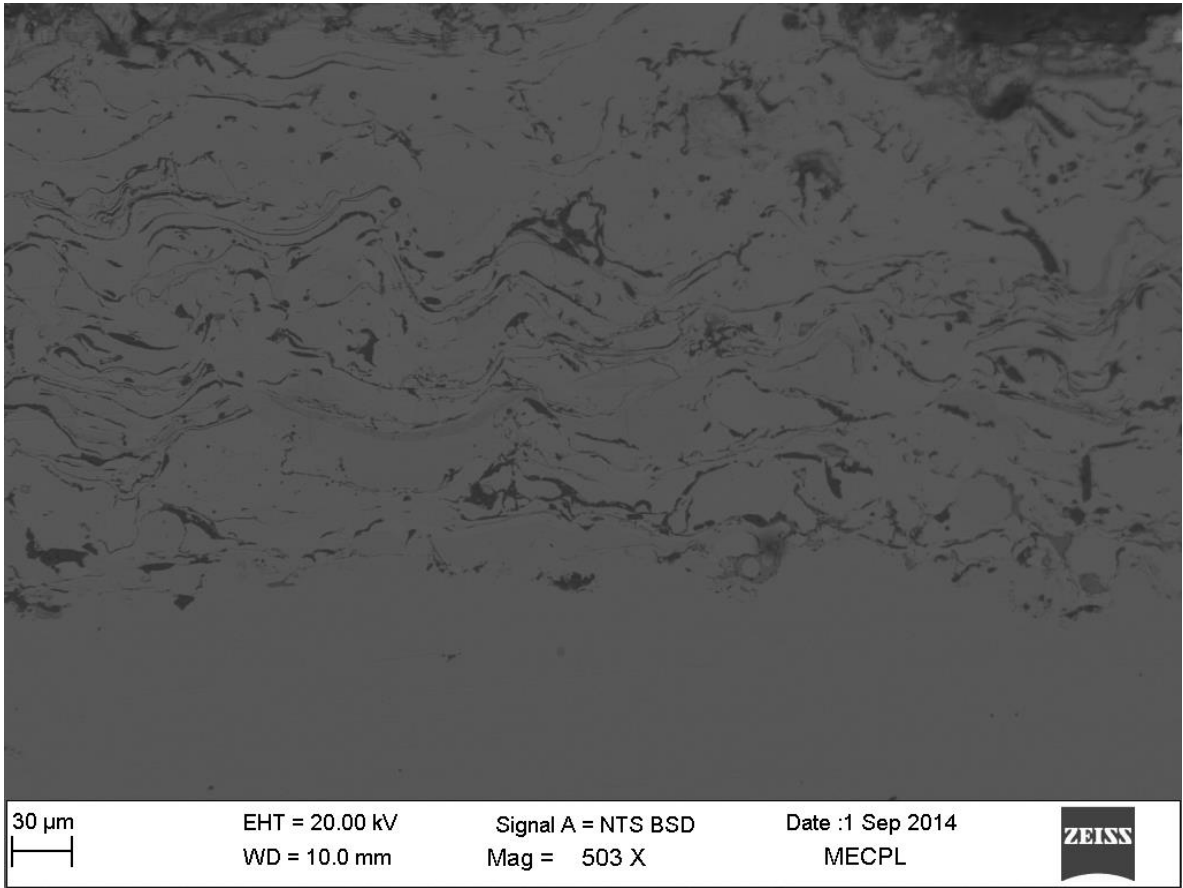
V-1	V- 2	V-3	V-4	V-5	AVERAGE VHN
305	276	296	271	315	292



08. MICRO STRUCTURE:

A) FOR COATING





B) FOR WIRE CROSS SECTION

