

**PROTECH LAB CORP.**  
**Materials Testing Services**  
 147 Island Dr, Hilton Head, SC 29926 843 682-2772

Source: Kermetico	Date Received: 7/28/14	Protech Lab #: 14-0592-2
Customer P.O.#: 2014-2374	Part Drawing #: Not Provided	Part Serial #: Not Provided
Spray Date: Not Provided	Part Model: Not Provided	Job #: Not Provided
Quantity Provided: 1 Panel	Customer: Not Provided	Cell/Booth #: Not Provided

<b>Additional Data:</b>	<b>Cr3C2-25NiCr_1133-2_CH-7525</b>
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Coating Materia Spec.: Not Provided	Coating Vendor: Not Provided	Coating Lot #: Not Provided
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Protech Polishing Procedure: PLC-Carbide	Mount Identification: 14-0592-2	1133-2
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**Microstructure Evaluation**

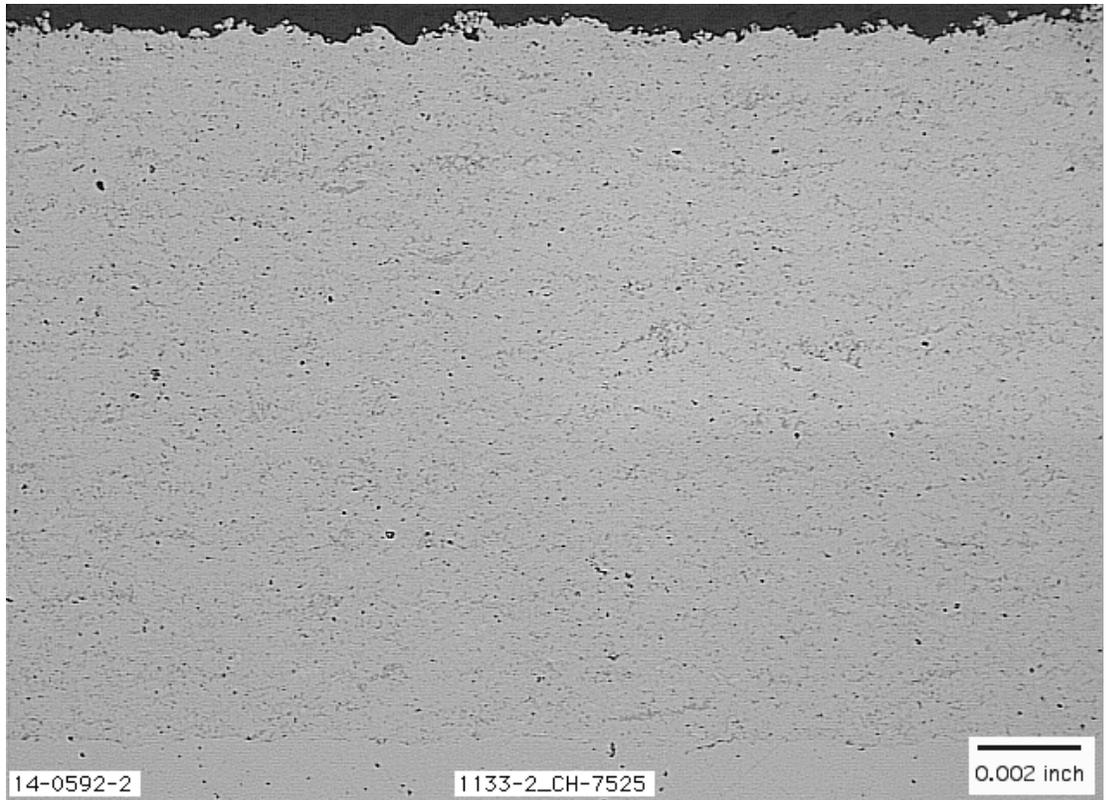
Requirements	Characteristics	Found	Accept/Reject	Comments:
<b>COATING MICROSTRUCTURE</b>				
Not Provided	Porosity	< 0.5%	For Info Only	See Additional Comments
Not Provided	Oxide Content	< 0.5%	For Info Only	
Not Provided	Unmelted Particles	None Found	For Info Only	
Not Provided	Cracks/Delaminations	None Found	For Info Only	
Not Provided	Interface Contamination	None Found	For Info Only	

<b>Additional Comments:</b>	<b>Porosity Content:</b> ASTM E2109-01(2007) was used as a comparison for calculation of porosity percentage.
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**MICROSTRUCTURE EVALUATION FOR INFORMATION ONLY**

<b>Average Coating Thickness</b>
<b>12.6 mils</b>

<b>Top Coat Microhardness Results</b>
Specifications: ASTM 384-11E1
Not Provided
Test Type: HV300
Requirement: Not Provided
<b>Reading</b>
1037
1104
1145
975
984
1018
1074
1001
1060
1084
<b>Average Hardness</b>
<b>1048.2</b>
For Information Only

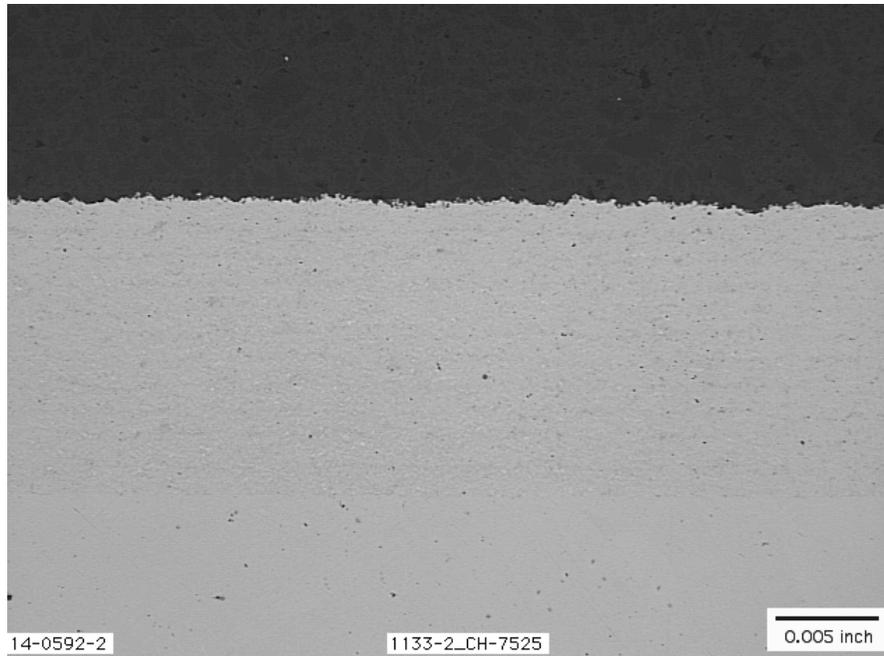


Laboratory Signature: *Eric Thibij*

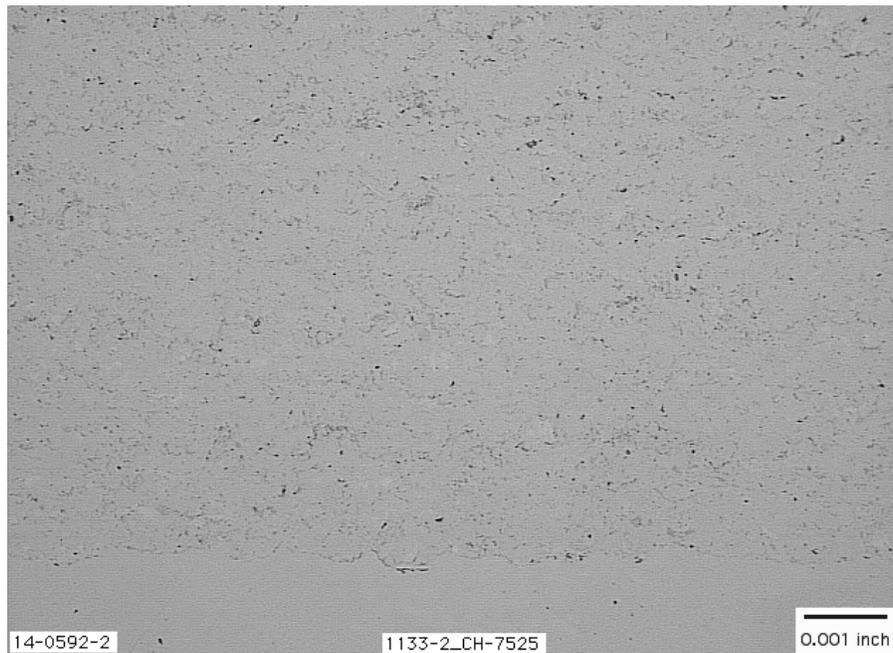
Date: 8/1/14

Reviewed By: *[Signature]*

Date: 8/1/14



**Microstructure as Viewed at 100x Magnification**



**Microstructure as Viewed at 400x Magnification**