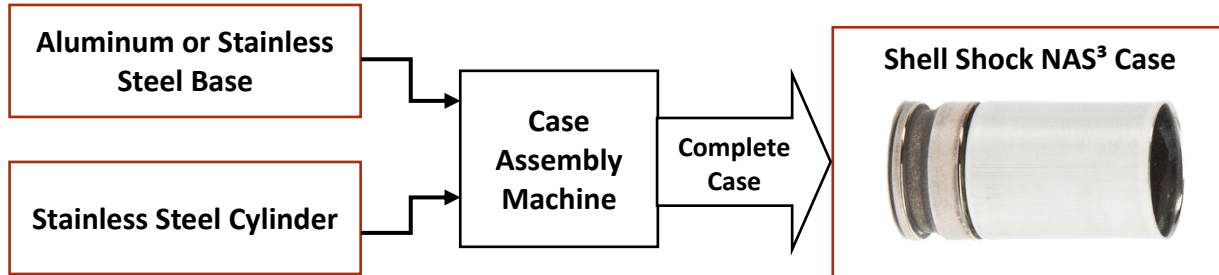


Shell Shock Technologies – Explanation of New Aluminum Base Coating

Shell Shock’s NAS³ cases are made from 2 components; a stainless steel cylinder and an aluminum base for pistol calibers or stainless steel base for rifle cases.



The aluminum bases for pistol calibers need to be coated to prevent corrosion.


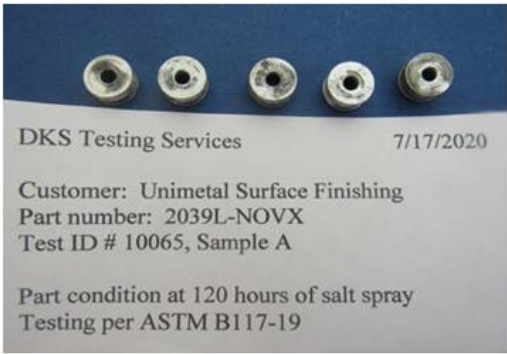
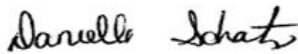
Initially Shell Shock used electroless-nickel plating to coat the aluminum bases. Electroless nickel plating provided the required protection, but was not a scalable process as demand for NAS³ cases increased. To cope with the spike in demand that occurred during 2020, Shell Shock switched to a different method of coating the aluminum bases; tri-valent chrome.

	Previous Aluminum Base Coating	New Aluminum Base Coating
Technology	Electroless nickel plating	RoHS compliant tri-valent chrome
Corrosion/ Salt Spray Resistance	Adequate	Better, complies with Mil standard DTL 5541F
Headstamp Visibility	Adequate	Better
Processing Time	Hours	Minutes
Consistency Between Batches	Difficult to achieve	Easier to achieve

The new tri-valent chrome base coating gives increased corrosion protection, with greater headstamp visibility, in a process that is more consistent, scalable, and faster than the previous base coating process.

All pistol calibers of NAS³ cases will use the new tri-valent chrome coating.

Test report for tri-valent chrome base coating – 120 hrs. salt spray:

TEST REPORT : 10049		ISO/IEC 17025:2017 Accredited	
DKS Testing Services			
2409 Siple Road, Brockport, PA 15823		TESTING LABORATORY	
Ph: 814-268-1003, email: dschatz@brockwaytv.com		Cert # L2316	
Test ID:	10065	Report Issue Date:	7/17/2020
Part number:	2039L-NOVX	Part Description:	0
Lot number:	Sample A	PO Number:	S-21180
Number of Samples:	5	Reference Specification:	0
Test Date IN:	7/11/2020	Test Date OUT:	7/16/2020
Required hours:	72 hours	Actual hours:	120 hours
Test Method:	ASTM B117-19 Standard Practice for Operating Salt Spray Fog Apparatus		
Test Results:	All five parts (ID #1 through #5) passed with no pitting or basis corrosion present at 120 hours of exposure.		
			
			
Danielle Schatz General Manager		End of Report	