

Lightweight Plate (LWP) Ceramic and Delamination Defect Classification Table

Defect	Critical	Minor
<i>Ceramic Component</i>		
Any crack	1	
Rivulets greater than 2.50 inches in length.	2	
Rivulets greater than 0.75 inch in length, but less than or equal to 2.50 inches length.		101
Pits and voids greater than 0.125 inch in diameter	3	
Pits and voids greater than 0.0625 inch in depth	4	
Chips greater than 0.5 inch in width or length	5	
Chips greater than 0.125 inch in depth	6	
Any two edge chips greater than 0.25 inch in width, less than 0.50 inch in length and less than 0.125 inch into depth that are less than 1.00 inch apart.	7	
<i>All Components Contained within the Plate Covering</i>		
More than 10 delaminations, voids, or under adhered areas, in any combination, between components greater than 0.0625 inch but less than or equal to 0.125 inch in any dimension	8	
Any single delamination, void, or under adhered areas between components greater than 0.25 inch in any dimension	9	
One to 10 delaminations, voids, or under adhered areas between components greater than 0.0625 inch but less than or equal to 0.125 inch in any dimension		102
<i>Foreign Object Debris</i>		
Any item larger than 0.125 inches in any dimension	10	
Three or more items less than 0.125 inches and greater than or equal to 0.0625 inches in any dimension	11	
Ten (10) or more items less than 0.0625 but greater than 0.03 inch in any dimension per insert		103
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Enhanced Small Arms Protective Insert (ESAPI) Ceramic and Delamination Defect Classification Table

Defect	Critical	Minor	Anomaly (no defect)
<b><i>Ceramic component</i></b>			
Any crack	1		
Defects greater than 2.50 inches in length.	2		
Defects greater than 0.75 inch in length, but less than or equal to 2.50 in length		101	
Defects less than or equal to 0.75 inch in length			201
Defects greater than 0.0625 inches in width	3		
Defects greater than 0.030 inches in width, but less than or equal to 0.0625 inches in width		102	
Defects less than or equal to 0.030 inches in width			202
Defects greater than 0.0625 inches in depth	4		
Defects greater than 0.030 inches in depth, but less than or equal to 0.0625 inches in depth		103	
Defects less than 0.030 inches in depth			203
<b><i>All components contained within the plate covering</i></b>			
More than 10 delamination's, voids, or under adhered areas, in any combination, between components greater than .030 inches but less than or equal to 0.180 inches in any dimension	5		
Any delamination, void, or under adhered areas between components greater than .180 inches in any dimension	6		
Any delamination, void, or under adhered areas between components greater than .030 inches but less than or equal to 0.180 inches in any dimension		104	
Any delamination, void, or under adhered areas between components less than .030 inches in all dimensions			204
<b><i>Foreign object debris</i></b> (Any foreign object debris or defect identified that is not associated with the Technical Data Package)			
Any item larger than 0.0625 inches in any dimension	7		
Any item greater than 0.030 inches and less than or equal to 0.0625 inches in any dimension		105	
Any item less than 0.030 inches in all dimensions			205
More than one (1) foreign object per insert	8		
Four (4) or more shot peen media per insert		106	
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