

Defects and nondestructive test methods for Composite Layers

<i>Defect or variable</i>	<i>X-ray</i>	<i>Gamma ray</i>	<i>Ultrasonic</i>	<i>Sonic</i>	<i>Microwave</i>	<i>Temperature differential</i>	<i>Penetrant</i>
Unbond	X	X	X	X		X	
Delamination	X	X	X	X	X	X	X
Undercure			X	X	X		
Fiber misalignment	X	X					
Damaged fibers	X						X
Variation in resin							
Variation in thickness	X	X	X	X	X		
Variation in density	X	X	X	X			
Voids	X	X	X	X	X	X	X
Porosity	X	X	X	X	X		X
Fracture	X	X	X	X			X
Contamination	X	X	X				
Moisture					X		



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