

CONDITIONAL PROBABILITY OF RELEASE – TANK CARS IN FLAMMABLE LIQUIDS SERVICE

Car Specification	Head & Shell Thickness (in.)	Jacket	Head Shield	Top Fittings Protection	Bottom Fittings	Shell Inside Diameter (in.)	CPR>100
111A Legacy Jacketed	0.4375	YES	NO	NO	YES	119	0.085
111A Legacy Non-Jacketed	0.4375	NO	NO	NO	YES	119	0.196
CPC-1232 Jacketed	0.4375	YES	FULL	YES	YES	119	0.046
CPC-1232 Non-Jacketed	0.5	NO	HALF	YES	YES	119	0.103
FAST Act Compliant							
117R100W Legacy Retrofit	0.4375	YES	FULL	YES *	YES	119	0.078
117R100W CPC-1232 Jacketed Retrofit	0.4375	YES	FULL	YES	YES	119	0.046
117R100W CPC-1232 Non-Jacketed Retrofit	0.5	YES	FULL	YES	YES	119	0.037
117J100W	0.5625	YES	FULL	YES	YES	119	0.029

* While there is an engineering basis for expecting improved performance from the top fittings protection required for this DOT/TC-117R, there is not enough data available to quantify that improvement. Therefore the CPR estimate presented here conservatively assumes no improvement due to that protection. Updated 1/15/2019.