Table 3.4.2 D: Wheel Weights – Tin

	Technical/ Performance Parameter	Measure/Metric	Source of Information
	Component/End-product		
	Key physical characteristics	Density: The density of tin is 7.34 g/cm^3 vs. 11.34 g/cm^3 for lead, which means that, for a given weight size (mass), a tin weight will be 54% larger volume than a lead weight. (MatWeb) Melting Point: At 450° F, the melting point of tin is lower than the 622° F melting point of lead but it is above the maximum operating temperatures required for wheel weights. (MatWeb) Corrosion resistance: A manufacturer of tin adhesive wheel weights states that no corrosion protection is required for tin wheel weights and that they will retain a good surface appearance. (Trax) Hardness: 100% tin, Brinell: 3.9 tin alloy, ASTM B 23, Brinell: 17 Lead, Brinell: 4.2 Lead, Vickers: 5 (MatWeb) Malleability: The malleability of tin is similar to lead. (Sander)	MatWeb, 2006 Trax, 2006 Sander, 2000