

Table 3.4.3 D: Fishing Sinkers – Steel

	Technical/ Performance Parameter	Measure/Metric	Source of Information
<i>Component/End-product</i>			
	<p><u>Key physical characteristics</u></p>	<p>Density: The density of steel is approximately 7.87 g/cm³ vs. 11.34 g/cm³ for lead, which means that, for a given weight size (mass), a steel sinker will be 44% larger volume than a lead sinker. (MatWeb)</p> <p>Melting Point: At 2732 °F, the melting point of steel is significantly higher than the 621 °F melting point of lead. (MatWeb)</p> <p>Corrosion resistance: Sinkers made from carbon steel are subject to rusting and therefore must be coated to prevent corrosion. Stainless steel is corrosion resistant and would not require coating. (Ellis)</p> <p>Malleability: Steel has limited malleability.</p> <p>Hardness:</p> <p style="padding-left: 40px;">Stainless Steel (304), Brinell: 123 Stainless Steel (304), Vickers: 129 Steel, Mohr’s Scale: 5 Lead, Mohr’s Scale: 1.5 Lead, Brinell: 4.2 Lead, Vickers: 5</p> <p>(MatWeb)</p>	<p>Ellis, 2006 MatWeb, 2006</p>