

## Kennametal Stellite Hydroloy® HQ913®

Category : Metal , Ferrous Metal , Stainless Steel

### Material Notes:

Information provided by Deloro Stellite, Inc. Typical data, not guaranteed as a maximum or minimum. Proprietary stainless steel with low Co and Mn contents, formulated to resist cavitation and droplet impingement erosion. Processing: Can be heat treated to increase ductility without affecting resistance to cavitation erosion. Work hardens easily; important to ensure good cutting action and to avoid rubbing during finishing operations. Easier to grind to final dimensions than the stainless steel it typically replaces. Corrosion Resistance: Moderate. Resists mildly corrosive environments and slight abrasive conditions. Applications: parts requiring cavitation or water droplet impingement erosion resistance such as hydraulic turbine runners or boiler feedwater pumps. Forms: Castings, wrought specialty shapes, hardfacing, wire, and powder. Product of former Deloro Stellite Inc. Similar to Ireca Alloy

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kennametal-Stellite-Hydroloy-HQ913.php](http://www.lookpolymers.com/polymer_Kennametal-Stellite-Hydroloy-HQ913.php)

Physical Properties	Metric	English	Comments
Density	7.75 g/cc	0.280 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	274	274	Converted from Vickers hardness
Hardness, Knoop	306	306	Converted from Vickers hardness
Hardness, Rockwell C	32	32	
Hardness, Vickers	290	290	
Tensile Strength, Ultimate	862 MPa	125000 psi	
Tensile Strength, Yield	448 MPa	65000 psi	
Elongation at Break	35 %	35 %	
Reduction of Area	40 %	40 %	

Thermal Properties	Metric	English	Comments
Melting Point	1400 - 1455 °C	2550 - 2651 °F	
Solidus	1400 °C	2550 °F	
Liquidus	1455 °C	2651 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.20 %	0.20 %	

Chromium, Cr Component Elements Properties	Metric 17 %	English 17 %	Comments
Cobalt, Co	9.0 %	9.0 %	
Iron, Fe	61.6 %	61.6 %	
Manganese, Mn	9.5 %	9.5 %	
Nitrogen, N	0.20 %	0.20 %	
Silicon, Si	2.5 %	2.5 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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