

**Nominal Composition (mass %) and Physical Properties**

Ni	Cr	Si	B	C	Fe	Others
Base	-	2.5	1.4	0.05	<1.0	-

Hardness	200-260 HV	18-24 HRC
----------	------------	-----------

Melting Range	1070-1160° C	1960-2120° F
---------------	--------------	--------------

Deposit Density	8.49 g.cm <sup>3</sup>	0.307 lb/in <sup>3</sup>
-----------------	------------------------	--------------------------

DELORO® 22 is a pre-alloyed gas atomised nickel based powder which is used primarily for the local repair and hardfacing of glass forming molds. It can also be used as a tough build-up alloy for the edges of cast iron and steel components.

DELORO® 22 is typically deposited as a machinable, non-magnetic spray-fuse (SF) or powder weld deposited overlay. It is similar to Deloro® 25, but is slightly softer, and is easily finished by hand.

Like the other DELORO® nickel base alloys, its wear resistance is mainly due to the presence of hard boride and silicide phases, and it retains its properties up to about 315°C (600°F). Because of its relatively low melting point it is easily fused to form a smooth hard-wearing surface.

Deloro Stellite manufactures sophisticated alloys in the form of castings, powders, coatings, consumables, and machined parts that resist wear, corrosion, and abrasion. Information provided in this document is intended only for general guidance about Deloro Stellite products and is the best information in our possession at the time. Product users may request information about their individual use of our products, but Deloro Stellite does not warrant or guarantee this information in any way. Selection and purchase of Deloro Stellite products is the sole responsibility of the product user based on the suitability of each use. Individual applications must be fully evaluated by the user, including compliance with applicable laws, regulations, and non-infringement. Deloro Stellite cannot know or anticipate the many variables that affect individual product use and individual performance results may vary. For these reasons, Deloro Stellite does not warrant or guarantee advice or information in this document, assumes no liability regarding the same, and expressly disclaims any warranty of any kind, including any warranty of fitness for a particular purpose, regarding the same.



UK SALES OFFICE

Deloro Stellite  
Cheney Manor Industrial Estate  
Swindon SN2 2PW  
UK

Tel: (+44) 1793-498500  
Fax: (+44) 1793-498501  
E-Mail: saleshad@stellite.com

Literature Number: 461-D22  
Copyright © 2007 Deloro Stellite  
Printed in USA  
www.stellite.com

US SALES OFFICE

Stellite Coatings  
1201 Eisenhower Drive North  
Goshen, Indiana 46526  
USA

Tel: (+1) 574-534-2585  
Fax: (+1) 574-534-3417  
E-Mail: saleshad@stellite.com