

# SINTERING-DATA-SHEET

DR. FRITSCH GmbH & Co. KG

Dieselstraße 8

70736 Fellbach

Tel. 0711-518320; Fax 0711-5183210

<b>powder - code:</b>	NeoLoy-6000
-----------------------	-------------

<b>main component:</b>	Fe, Cu, Co	<b>binder:</b>	2 % alcohol	<b>date:</b>	20.09.2016
<b>machine type:</b>	DSP-25	<b>aver. Grain size</b>		<b>testperson:</b>	GK
<b>utilisation:</b>					

<b>heating by</b>	<b>die:</b>	X	<b>temperature measure-</b>	<b>pyroscope:</b>	
	<b>punches:</b>		<b>ment by:</b>	<b>thermocouple:</b>	X

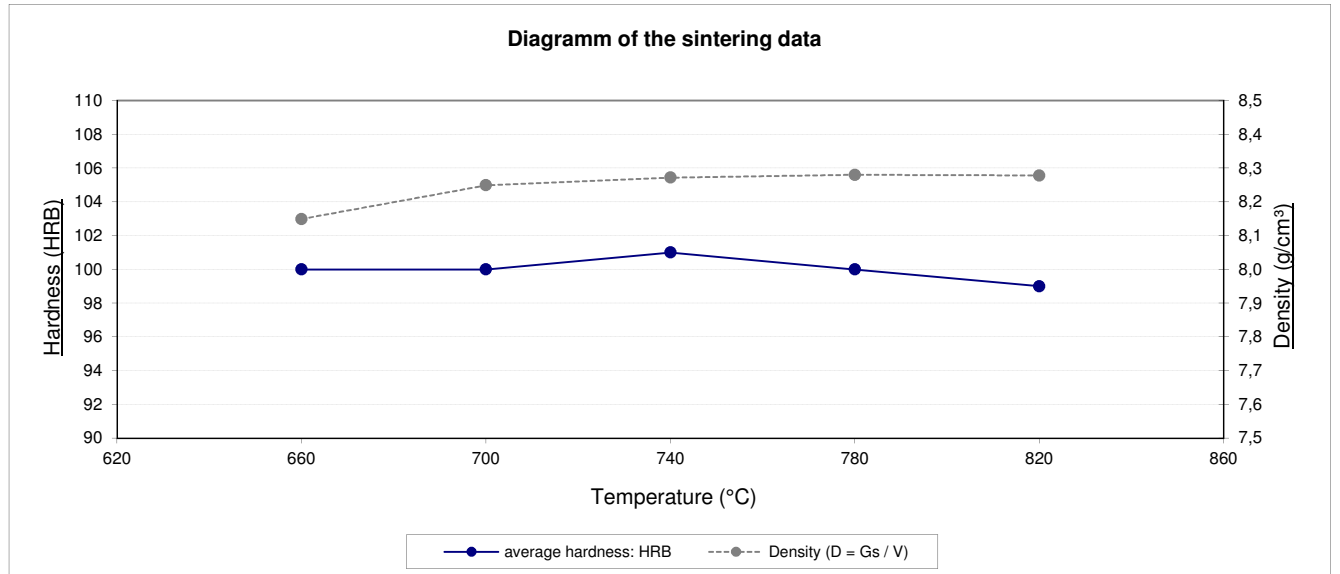
<b>temperature:</b>	$^{\circ}\text{C}$	660	700	740	780	820	860	900	940
<b>specific pressure:</b>	$\text{N/mm}^2$	35	==>						
<b>sintering time:</b>	$\text{min}$	3	==>						

<b>bending strength:</b>	$\text{N/mm}^2$								
<b>stretch at break:</b>	%								
<b>average hardness:</b>	HRB	100	100	101	100	99			
<b>hardness scattering:</b>	HRB	98-102	99-101	101-102	100-101	99-100			
<b>average hardness:</b>	HRC								
<b>hardness scattering:</b>	HRC								
<b>weight:</b>	$\text{g}$	17	==>						
<b>weight after sintering:</b>	$\text{g}$								

<b>Volume</b> ( $V = G_s - G_w$ )	$\text{cm}^3$								
<b>Density</b> ( $D = G_s / V$ )	$\text{g/cm}^3$	8,15	8,25	8,27	8,28	8,28			

<b>weight loss</b> ( $G = G_e - G_s$ )	$\text{g}$								
<b>rel. Weight loss</b> ( $Gr = G * 100$ )	%								

<b>notes:</b>									
---------------	--	--	--	--	--	--	--	--	--



**Attention:**

Depending on mould-geometry and type and place of temperature-measurement an increase up to 60 °C must be done to get the same result !  
 In case of moulds with a high number of graphite punches a certain friction value needs to be considered. To obtain the detailed formula you are welcome to contact us.

Property of Dr. Fritsch GmbH & Co.KG. Transmission only allowed in explicit agreement with the management.