

SINTERING - DATA - SHEET

DR. FRITSCH GmbH & Co. KG

Dieselstraße 8

70736 Fellbach

Tel. 0711-518320; Fax 0711-5183210

powder - code:	Diafeco-1000B
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main component:	Fe	binder:		date:	26.06.2012
machine type:	DSP-25	aver. Grain size		testperson:	CT
utilisation:	Powder based on Iron-Cobalt				

heating by	die:	X	temperature measure-	pyroscope:	
	punches:		ment by:	thermocouple:	X

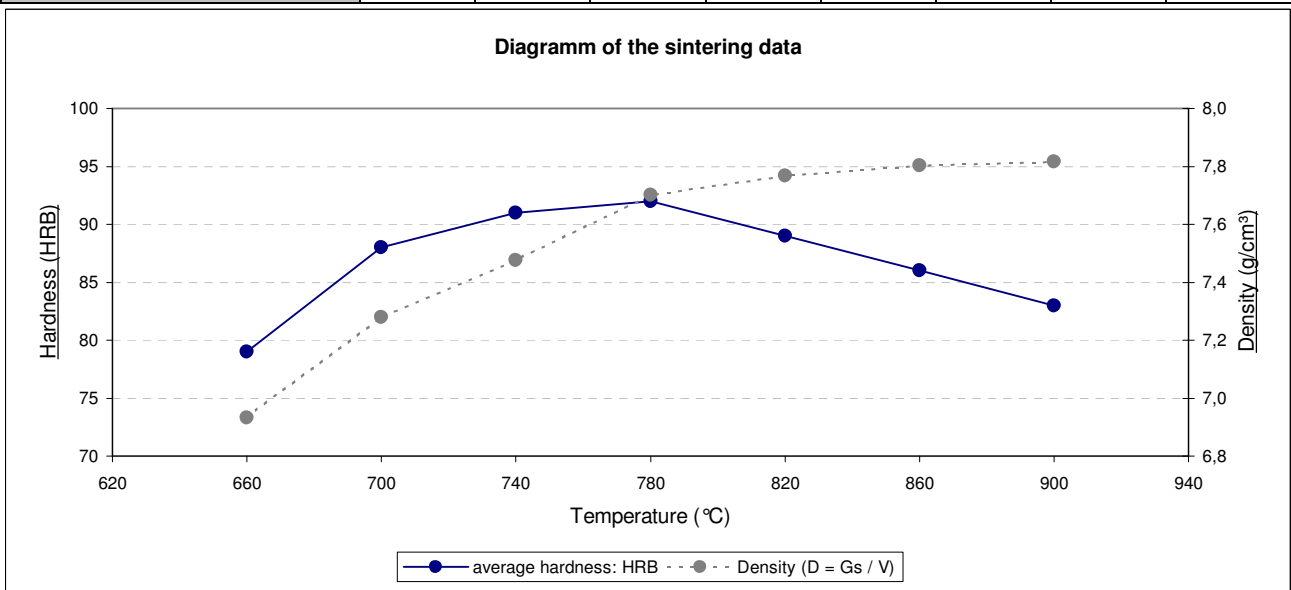
temperature:	°C	660	700	740	780	820	860	900	
specific pressure:	<i>N/mm²</i>	35	==>						
sintering time:	<i>min</i>	3	==>						

bending strength:	<i>N/mm²</i>								
stretch at break:	%								
average hardness:	HRB	79	88	91	92	89	86	83	
hardness scattering:	HRB	77-80	87-89	88-92	91-92	88-90	86-87	83-84	
average hardness:	HRC								
hardness scattering:	HRC								
weight:	g	17	==>						
weight after sintering:	g								

Volume ($V = G_s - G_w$)	<i>cm³</i>								
Density ($D = G_s / V$)	<i>g/cm³</i>	6,93	7,28	7,48	7,70	7,77	7,80	7,82	

weight loss ($G = G_e - G_s$)	g								
rel. Weight loss ($G_r = G * 100$)	%								

notes:									
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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.

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