

SINTERING-DATA-SHEET

DR. FRITSCH GmbH & Co. KG

Dieselstraße 8

70736 Fellbach

Tel. 0711-518320; Fax 0711-5183210

powder - code: DiaMix-W625

main component:	Fe	binder:	2 % alcohol	date:	13.07.2016
machine type:	DSP-25	aver. Grain size		testperson:	OE
utilisation:					

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

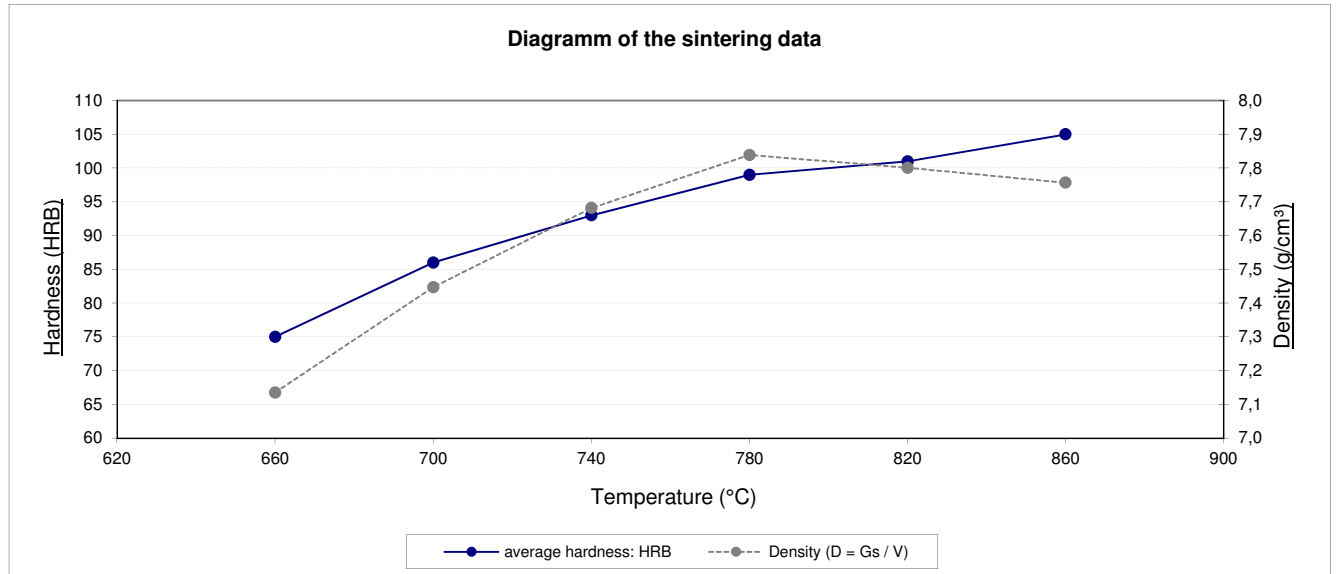
temperature:	$^{\circ}\text{C}$	660	700	740	780	820	860		
specific pressure:	N/mm^2	35	==>						
sintering time:	min	3	==>						

bending strength:	N/mm^2								
stretch at break:	%								
average hardness:	HRB	75	86	93	99	101	105		
hardness scattering:	HRB	74-76	84-89	92-94	98-99	101-102	104-106		
average hardness:	HRC								
hardness scattering:	HRC								
weight:	g	17	==>						
weight after sintering:	g								

Volume ($V = G_s - G_w$)	cm^3								
Density ($D = G_s / V$)	g/cm^3	7,14	7,45	7,68	7,84	7,80	7,76		

weight loss ($G = G_e - G_s$)	g								
rel. Weight loss ($Gr = G * 100$)	%					10,56	15,28		

notes:						extrusion	==>		
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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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