

SINTERING-DATA-SHEET

DR. FRITSCH GmbH & Co. KG

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powder - code:	DiaWeld-8000
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main component:	Fe	binder:	2 % alcohol	date:	17.10.2016
machine type:	DSP-25	aver. Grain size		testperson:	OE
utilisation:	Weldable Backing				

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

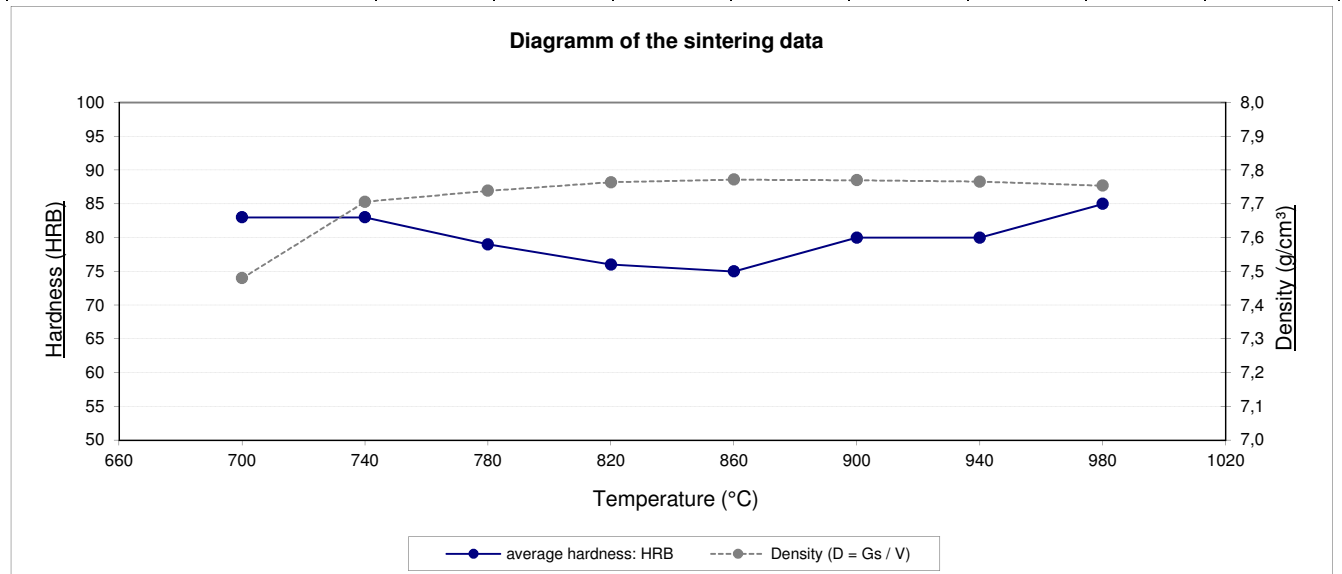
temperature:	$^{\circ}\text{C}$	700	740	780	820	860	900	940	980
specific pressure:	N/mm^2	35	==>						
sintering time:	min	3	==>						

bending strength:	N/mm^2								
stretch at break:	%								
average hardness:	HRB	83	83	79	76	75	80	80	85
hardness scattering:	HRB	82-84	81-84	77-81	73-77	74-76	79-81	75-83	81-86
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	7,48	7,71	7,74	7,76	7,77	7,77	7,77	7,75

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

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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