

SINTERING-DATA-SHEET

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powder - code:	Neoloy-7300
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main component:	Fe, Co	binder:	2 % alcohol	date:	10.04.2018
machine type:	DSP-25	aver. Grain size		testperson:	GK
utilisation:					

heating by	die:	X	temperature measurement by:	pyroscope:	
	punches:			thermocouple:	X

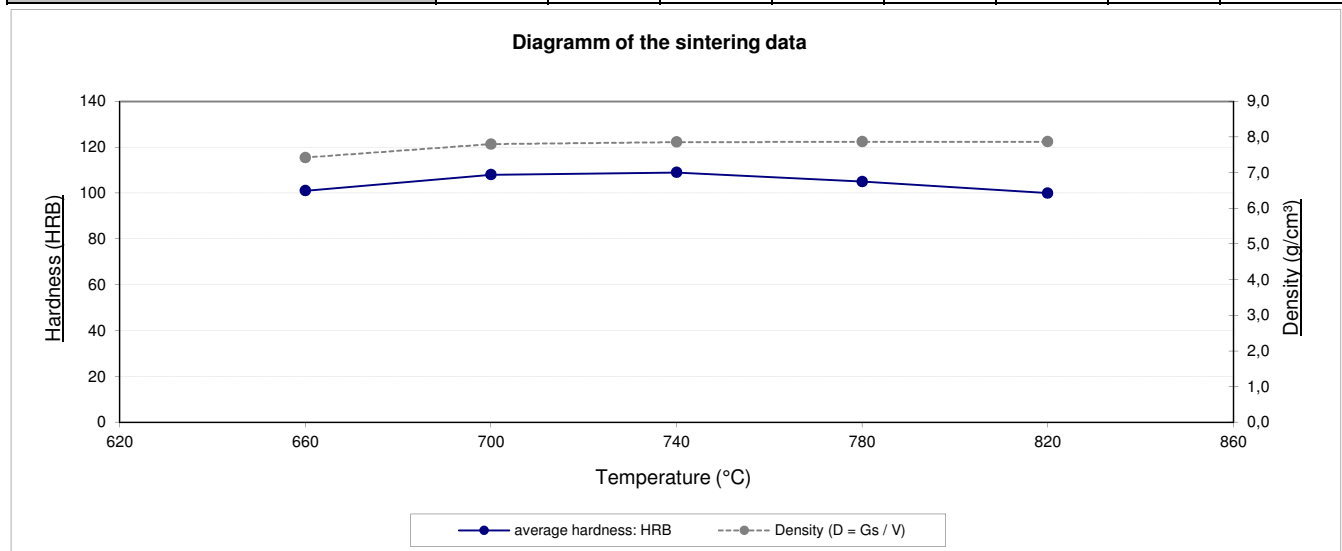
temperature:	°C	660	700	740	780	820			
specific pressure:	N/mm ²	35	==>						
sintering time:	min	3	==>						

bending strength:	N/mm ²								
stretch at break:	%								
average hardness:	HRB	101	108	109	105	100			
hardness scattering:	HRB	100-102	107-109	108-109	104-106	99-101			
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	7,43	7,80	7,86	7,87	7,87			

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

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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