

SINTERING - DATA - SHEET

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Powder - code: NeoLoy-1000

Main component:	Fe, Cu	Binder:	2 % alcohol	Date:	
Type of machine:	DSP-25	Average grain size		Testperson:	
Utilisation:	Basematerial, Fe-base				

Heating by	die:	X	Temperature measurement by	pyroscope:	
	punches:			thermocouple:	X

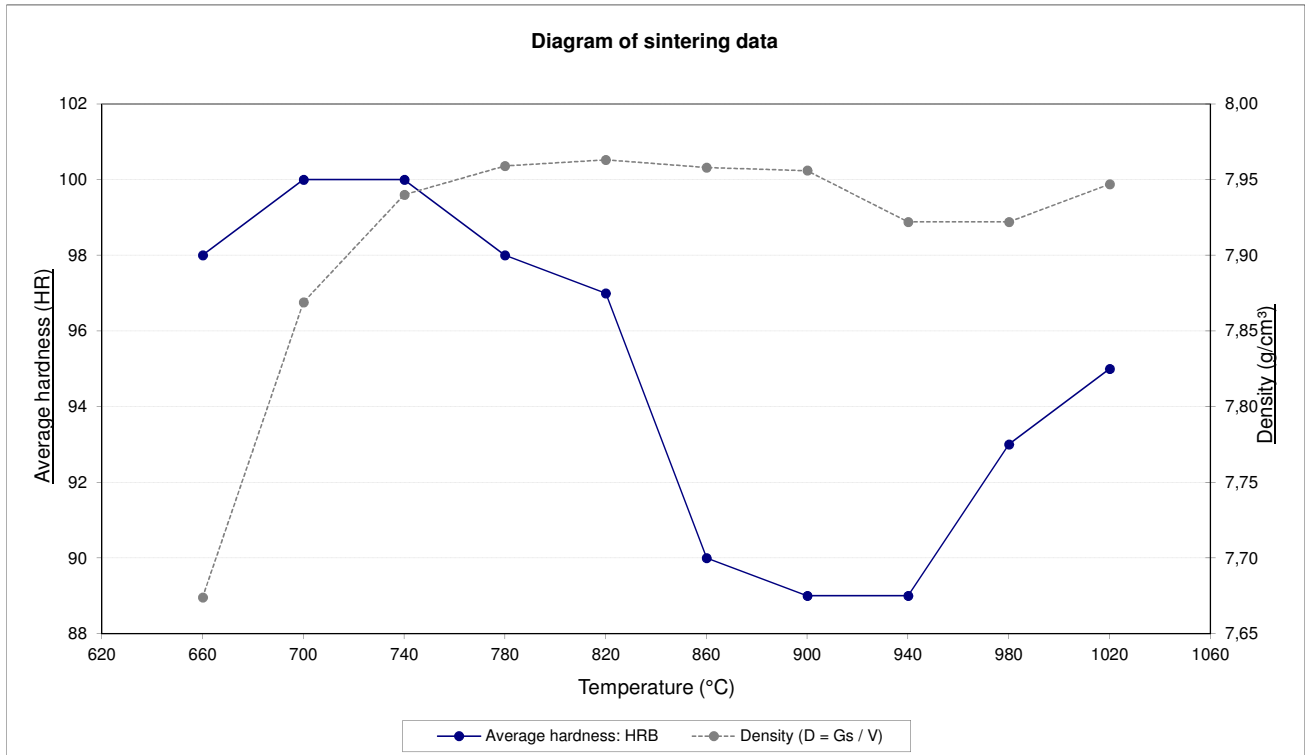
Temperature:	°C	660	700	740	780	820	860	900	940	980	1020	1060
Specific pressure:	N/mm ²	35	==>									
Sintering time:	min	3	==>									

Bending strength:	N/mm ²											
Stretch at break:	%											
Average hardness:	HRB	98	100	100	98	97	90	89	89	93	95	
Hardness scattering:	HRB	97-98	99-102	99-101	97-100	96-98	89-90	87-91	88-90	92-93	94-96	
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	7,67	7,87	7,94	7,96	7,96	7,96	7,96	7,92	7,92	7,95	

Weight loss (G = G_e - G_s)	g											
Rel. weight loss (Gr = G * I)	%											

Notes:



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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