

S I N T E R I N G - D A T A - S H E E T

DR. FRITSCH GmbH & Co. KG

Dieselstraße 8

70736 Fellbach

Tel. 0711-518320; Fax 0711-5183210

powder - code:	Dianic-5000
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main component:	Ni	binder:	2% alcohol	date:	
machine type:	DSP-25	aver. Grain size	5 μ (FSSS)	testperson:	Ga
utilisation:					

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

temperature:	°C	780	820	860	900	940			
specific pressure:	<i>N/mm²</i>	35	==>						
machine pressure:	<i>bar</i>	80	==>						
sintering time:	<i>min</i>	3	==>						
bending strength:	<i>N/mm²</i>								
stretch at break:	%								
average hardness:	HRB	55	58	57	57	53			
hardness scattering:	HRB	54-56	56-60	56-58	55-57	52-53			
weight:	<i>g</i>	20	==>						
weight after sintering:	<i>g</i>	19,668	19,66	19,642	19,694	19,72			

volume:									
$V = G_s - G_w$	<i>cm³</i>	2,408	2,362	2,359	2,313	2,3			
density:									
$D = G_s / V$	<i>g/cm³</i>	8,17	8,32	8,33	8,51	8,57			

weight loss:									
$G = G_e - G_s$	<i>g</i>								
rel. Weight loss:									
$Gr = G * 100 / G_e$	%								

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 !

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