

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

DR. FRITSCH GmbH & Co. KG

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powder - code:	V 5- 881
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main component:	Cu, Co	binder:	2% alcohol	date:	01.04.88
machine type:	DSP-25	aver. Grain size	< 20 µm	testperson:	Ga
utilisation:					

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

temperature:	°C	720	760	800	840	880	920	960	1000
specific pressure:	N/mm ²	25	==>						
machine pressure:	bar	57	==>						
sintering time:	min	3	==>						
bending strength:	N/mm ²								
stretch at break:	%								
average hardness:	HRB	83	85	82					
hardness scattering:	HRB	83-84	85-86	82-83					
weight:	g	17	==>						
weight after sintering:	g	16,624	16,566	16,044					

volume: V = G _s - G _w	cm ³	1,922	1,9	1,891					
density: D = G _s / V	g/cm ³	8,65	8,72	8,68					

weight loss: G = G _e - G _s	g								
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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