

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

DR. FRITSCH KG

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powder - code:	HO-5
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main component:	Bz	binder:	1,5 % Alk.	date:	29.11.89
machine type:	DSP-25	aver. Grain size	< 40 µ	testperson:	Ga
utilisation:					

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

temperature:	°C	560	600	640	680	720	760	800	840
specific pressure:	N/mm ²	20	==>						
machine pressure:	bar	45	==>						
sintering time:	min	3	==>						
bending strength:	N/mm ²								
stretch at break:	%								
average hardness:	HRB	94	94	89	83				
hardness scattering:	HRB	93-94	93-94	88-90	82-84				
weight:	g	20	==>						
weight after sintering:	g	19,681	17,859	19,569	19,572				

volume: V = G _s - G _w	cm ³	2,288	2,063	2,313	2,419				
density: D = G _s / V	g/cm ³	8,6	8,66	8,46	8,09				

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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