

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:	V23- 801
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main component:	Co	binder:	2% alcohol	date:	19.06.02
machine type:	DSP-25	aver. Grain size		testperson:	CW
utilisation:	drilling of concrete				

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

temperature:	°C	900	940						
specific pressure:	<i>N/mm²</i>	35	==>						
machine pressure:	<i>bar</i>	55	==>						
sintering time:	<i>min</i>	3	==>						
bending strength:	<i>N/mm²</i>								
stretch at break:	%								
average hardness:	HRB								
hardness scattering:	HRB	99-102	99-102						
weight:	<i>g</i>		==>						
weight after sintering:	<i>g</i>								

volume:									
$V = G_s - G_w$	<i>cm³</i>								
density:									
$D = G_s / V$	<i>g/cm³</i>	8,77	8,77						

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

notes:	Theoretical Density = 8,9 g/cm ³
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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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