Data Sheet -ZDXPOM F75B



(材料属性参考表)

产品 Product	F75B(通用型) F75B (For general-purpose)										
产品描述 Product description	金属注射 Feedstock										
收缩率 Oversize factor	Min. 1.161		Average 1.165		Max. 1.169						
熔体流动指数 MFI g/10min	min. 400		Average 800		Max. 1200		DIN EN	DIN EN ISO 1133 (190°C/21.6kg)			
烧结后典型成分		Fe	C	Cr	Ni	Mo	Co	Mg	P	S	
(按重量百分比计算) Typical composition after Sintering	>	0.0	0.0	27.0	0.0	5.0		-	-	-	
	<	0.75	0.35	30.0	0.5	7.0	Bal.	-	0.045	0.03	
	项目 Project				烧结态 as sintered		热处理 heat treated				
典型特性 Typical properties	密度 Density				8.02 g/cm ³			-			
	屈服强度 Yield strength Rp02				450 MPa		540 MPa				
Typical properties	抗拉强度 Tensile strength				640 MPa		950 MPa				
	延伸率 Elongation A10				8%			5%			
	硬度 Hardness				>HV 260			>HRC 37			
	盐雾测试 Salt spray test				72h						
	建议注射温度 Recommended injection temperature 建议模具温度				一段		二段	三段	四段	射嘴	
					185°C		185°C	175°C	150°C	190°CN	
					Zone 1 Zone 2		Zone 3	Zone 4	ozzle		
	Recommended injection temperature				90-125°C						
Injection process	参考生坯密度区间 Injection process Reference density interval				5.27-5.33 g/cm ³						
公子件工士、	其余注塑工艺参数受到产品形状及要求影响较大,故未写出。 需要注意的是,注塑工艺的设定对于产品的生坯密度有着较大的影响,而这也可能 导致产品最终尺寸和其他要求不符使用者的期望。										
(注射工艺)								丛也 可能			
	Other injection molding process parameters are greatly affected by product shape and										
	requirements, so they are not written out.										
	It should be noted that the setting of injection molding process has a great influence on the green density of the product, which may also cause the final size of the product and other requirements do not meet the user's expectations.										

脱脂工艺 Debinding process	脱脂酸 Debinding acid 脱脂温度 Debinding temperature 脱脂时间 Debinding time 脱脂工艺 Debinding process 设备 Equipment	98% HNO ₃ 100-150°C 取决于零件厚度 depending on part thickness (e.g. 3 mm part approx. 3h) () When the minimum debinding rate of green part when it reaches 7.3%, the debinding process can be terminated. 当生坯最低脱脂率 达到 7.3%时,可以终止脱脂制程 催化脱脂系统 Catalytic debinding system				
烧结工艺 Sintering process	烧结气氛 Sintering atmosphere 烧结载具 Sintering substrate 负压脱脂 Negative pressure degreasing	氫气烧结 100% Argon 氧化铝陶瓷片 Non-metallic base (e.g. Al2O3) 从室温升高至 600℃过程中,采用有多段持温的负压脱脂,以确保剩余粘结剂能被脱脂干净,总时间 450min 左右。 From room temperature to 600 ℃, vacuum debinding with multi-stage holding temperature is used to ensure that the remaining binder can be removed completely, and the total time is around 450 min.				
	真空烧结 Vacuum sintering	从 600℃以 3℃/min 升温至 850 摄氏度持温一段时间进行真空内烧,目的是确保产品碳含量在合理区间。 From 600 ℃ to 850 ℃ at 3 ℃ / min and holding for a period of time, the vacuum internal sintering is carried out to ensure that the carbon content of the product is in a reasonable range。				
	分压烧结 Partial pressure sintering	从 850℃以 3℃/min 升温至 1050℃后短暂持温,之后以同样的升温速度升高至 1260℃,使得材料致密化,最后随炉快速冷却。 From 850 ℃ to 1050 ℃ at 3 ℃/ min, holding for a short time and then it was raised to 1260 ℃ at the same heating rate for material densify, and finally rapid cooled with the furnace				
Shelf life 保质期	如果储存得当: 12 个月, 防止原料受潮。 If stored appropriately: 12 months. Protect feedstock against moisture.					

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Disclaimer: This datasheet is only based on our knowledge and experience, which has certain reference significance. However, it cannot completely exclude the user's non-compliance with expectations due to various reasons, because there exist many uncontrolled factors affecting the final requirements and performance of the products.