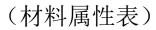
Data Sheet -ZDXPOM MIM-Cu-B





Product (产品)	ZDXPOM MIM-Cu-B (For general-purpose) MIM-Cu-B (通用型)									
Product description (产品描述)	Feedstock for metal injection moulding. (金属注射成型原料)									
Oversize factor (收缩率)	Min. 1.161 All specified dime		Average 1.165 ensions must be multi		Max. 1.169 plied by this rate.					
MFI g/10min (熔体流动指数)	min. 500		Average 900		Max. 1300		DIN EN ISO 1133 (190℃/21.6kg)			
Typical composition after Sintering 烧结后典型成分 (按重量百分比计算)		Cu	С	О	Fe	Ni	Zn	Sn	S	P
	>	-	0.0	0.0	-	-	-	-	-	-
	<	Bal.	0.02	0.1	(0.05			-
Typical properties (典型特性)	Project		as sintered							
	(项目) Density (密度)		烧结态退火 >8.5 g/cm³		热导率参考值 330W/(m.K)					
	Yield strength Rp02 (屈服强度)		60 MPa		550W/(III.K)					
	Tensile strength (抗拉强度)		180MPa							
	Elongation A10 (延伸率)		30%							
	Hardness (硬度)									
Injection process (注射工艺)	Injection temperature (注射温度)			Zone1 185°C		Zone 2 185°C	Zone 3	Zone 4	Nozzle 190°C	
	Tool temperature				185°C 185°C 175°C 150°C 190°C 90-125°C					
	(模具温度) Injection speed									
	(注射速度)				5-15 cm ³ /s					
	Screw circumferential speed (螺杆转速)				5-15 r/min					
	Injection pressure (注射压力)				800-1500 bar					
	Hold pressure (保压压力)				600-900 bar					
	Back pressure (背压压力)				0 bar					

Debinding process (脱脂工艺)	Debinding acid (脱脂酸)	草酸				
	Debinding temperature (脱脂温度)	125-140°C				
	Debinding time (脱脂时间)	depending on part thickness (e.g. 3 mm part approx. 3h) (取决于零件厚度)				
	Debinding process (脱脂工艺)	When the minimum debinding rate of green part when it reaches 6.7%, the debinding process can be terminated. 当生坯最低脱脂率 达到 6.7%时,可以终止脱脂制程				
	Equipment (设备)	Catalytic debinding system(催化脱脂系统)				
Sintering process (烧结工艺)	Sintering atmosphere (烧结气氛) Sintering substrate (烧结载具)	Hydrogen or ammonia decomposition 氢气或者分解氨 Non-metallic base (e.g. Al 2 O 3) (氧化铝陶瓷片)				
	Sintering cycle (烧结循环)	Rise from room temperature to $600 ^{\circ}\mathrm{C}$ at $5\mathrm{K}$ / min for 1 hour, then rise to $1050 ^{\circ}\mathrm{C}$ at $5\mathrm{K}$ / min for 3 hours, and then cool down with furnace $(5\mathrm{K}/\mathrm{min} \mathrm{K} \mathrm{E} \mathrm{E} \mathrm{E} \mathrm{E})$ 到 $600^{\circ}\mathrm{C}$,保温 1 小时, $5\mathrm{K}/\mathrm{min} \mathrm{E}$ 升到 $1050^{\circ}\mathrm{C}$,保温 3 小时,然后随炉冷却)				
	We will be glad to support you in determining the optimal treatment parameters for your application (我们将很乐意为您的应用确定最佳的后续处理工艺)					
Heat treatment (热处理)	Heat treatment (热处理)	NA				
	Inductive hardening/ (淬火)	NA				
	Case hardening (表面硬化)	NA				
	Carbonitriding (碳氮共渗)	NA				
Shelf life (保质期)	If stored appropriately: 12 months. Protect feedstock against moisture. (如果储存得当: 12 个月, 防止原料受潮。)					

All information made available in this specification is based on our present knowledge and experience. The information provided does not relieve the processor of the obligation to carry out his own tests and trials due to the many factors which may affect the sampling.

For processing and application of our products, ZDXMIM does not warrant certain properties or the suitability for a specific application, which may be derived from the information provided in this specification. The recipient of our product must observe any existing industrial property rights as well as existing laws and regulations.

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