## Data Sheet -ZDXPOM 304H



## (材料属性参考表)

	), H											
	产品	304H(高										
	Product	304H (1	304H (High carbon content)									
	产品描述	金属注射成型原料										
	Product description	Feedstock for metal injection moulding.										
	收缩率	1.162		1.165		1.168						
	Oversize factor	Min.		Average		Max.						
	熔体流动指数 MFI	800		1200		1600						
	g/10min	Min.		Average		Max.		DIN EN ISO 1133 (190°C/21.6kg)				
	烧结后典型成分		Fe	С	Cr	Ni	Mo	Mn	Si	S	P	
	<b>州和州至风力</b>	>	1.6	C	18.0	8.0	MIO	IVIII	31	0	0	
т	(按重量百分比计算) ypical composition after Sintering			-			-	-	-			
1		<	Bal.	0.08	20.0	11.0	-	2.0	1.0	0.03	0.035	
	典型特性 Typical properties	项目				烧结态						
		Project				as sintere		red heat treated				
		密度 Density				>7.75 g/cm <sup>3</sup>						
		屈服强度 Yield strength Rp02				>160 MPa						
		抗拉强度				>480 MPa						
		Tensile strength				>400 WH a						
		延伸率 Elongation A10				>40 %						
		硬度 Hardness				150-200 HV10						
	盐雾测试 Salt spray test				36 h							
		Buit spray to										
		Z事:37.5-2-6-1-7月 F产				_	·段	二段	三段	四段	射嘴	
		建议注射温度  Percommended injection temperature				1	85°C	185°C	175°C	150°C	190°C	
		Recommended injection temperature				Z	one 1	Zone 2	Zone 3	Zone 4	Nozzle	
		建议模具温			90-125°	90-125°C						
		Recommended injection temperature				7						
	》 <del>〉</del>	参考生坯密			5.35-5.41 g/cm <sup>3</sup>							
	注塑工艺	Reference density interval										
	Injection process	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。										
		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 in								t influence	e on the		
		5 J										

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.

	TN TN TA					
	脱脂酸	98% HNO <sub>3</sub>				
	Debinding acid					
	脱脂温度	100-150°C				
脱脂工艺	Debinding temperature					
Demanding process	脱脂时间	取决于零件厚度				
	Debinding time	Depending on part thickness (e.g. 3mm part approx. 3h)				
	IIV IIV →	当生坯最低脱脂率,达到7.2%时,可以终止脱脂制程。				
	脱脂率	When the minimum debinding rate of green part reaches				
	Debinding rate	7.2%, the debinding process can be terminated.				
	bt/t+ 左 /=					
	烧结气氛	<b>氢气烧结</b>				
	Sintering atmosphere	100% dry argon				
	烧结载具	氧化铝陶瓷片				
	Sintering substrate	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				
	<b>负压脱脂</b>	450min 左右。				
		From room temperature to 600 °C, vacuum debinding				
	Negative pressure 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.				
烧结工艺		从 600℃以 3℃/min 升温至 850 摄氏度持温一段时间				
Sintering process		进行真空内烧,目的是确保产品碳含量在合理区间。				
	真空烧结	From 600 °C to 850 °C at 3 °C / min and holding for a				
	Vacuum sintering	period of time, the vacuum internal sintering is carried				
	vacuum sintering					
		out to ensure that the carbon content of the product is in a reasonable range.				
		从 850°C以 3°C/min 升温至 1050°C后短暂持温,之后				
		以同样的升温速度升高至 1380℃,使得材料致密化,				
	分压烧结 Partial pressure sintering	最后随炉冷却。				
		From 850 °C to 1050 °C at 3 °C/min, holding for a short				
		time, and then it was raised to 1380 °C at the same				
		heating rate for material densify, and finally cooled with				
		the furnace.				
保质期	如果储存得当: 12 个月, 防止原料受潮。					
Shelf life	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.