TECHNICAL SPECIFICATIONS

Heraeus

Alloy Co	de:	H	-JBS	6T1	Colour:	Off White			
Alloy Type:		Bronze							
Content :	Nickel:	0.0%	Palladiu	m: 0.0%		-H-JBST1			
	Silver:	0.0%	Platinum	n: 0.0%					
Applications:	Suitable for	loss wax	casting			Casting			
Advantages:	Nickel-Free hardness	e, High flui	dity, less po	rosity, high	Free from Cracks Hand Pouring				
Melting Range	(°C):					5			
Bronze	939 - 944				from Hardspot	Stone Cast			
				Fre	ee from Porosity	Rolling			
CIELAB Va		1 4	- 4	b*	Hardr	Wiring			
Karat Bronze	YI:D1925 28.3	L* 84.9	a * 0.6	D [*] 13.8	_				
DIONZE	20.0	04.3	0.0	10.0	_				
						0) ess likely to occur or not suitable most likely to occur or most suitable			
Recommen	ded Casti	ng Para	meters		(Quenc	hing Time: 15 - 25 Minut	tes)		
	Metal			Vacuum-assisted Casting					
	Casting			Investment Temperature (°C)					
Karat	Temperatu (ºC)	ire		Thin (0.2, 0.4		s of work piece (mm) n (0.5~1.1) Thick (>1.1)			
Bronze	1040-1060			Thin (0.2~0.5	600-660				
	10-1000			000-120	000-000	5 020-000			

Tensile Properties :											
	Annealed	As Casted	Max	Yield							
Karat	Hardness	Hardness	Strength	Strength	Elongation						
	(HV)	(HV)	(MPa)	(MPa)	(%)						
Bronze	150	155	NA	NA	NA						

Technical Advice:

1. To avoid oxidation, the alloys must be covered with inert gas or yellow flame during casting.

2. Not more than 50 % of old material should be used for recasting.

3. The old material must be tumbled to remove the investment powder residue and oxides.

The material is then pickled in dilute sulfuric acid (15 %) for 15 - 20 minutes to remove the rest of oxides.

4. The sprue should be placed at the thickest position. Additional sprue must be applied if necessary.

Fluted sprue is preferred to avoid any turbulence.

Remarks: The information is for your reference only. The parameters should be adjusted according to the particular casting conditions. If you have any technical questions, please do not hesitate to contact us.

