Heraeus **TECHNICAL SPECIFICATIONS** O-CAG Alloy Code: Colour: White 925 Ag Alloy Type: Content : Nickel: 0.00% Palladium: 0.00% O-CAG Silver: 0.00% 92.70% Platinum: Suitable for loss wax casting, stone casting, hand-**Applications:** Casting making Less porosity, low melt-loss, heat treatment Advantages: Free from Fire Scale Hand Pouring Melting Range (°C): Free from Cracks Stone Casting Sterling Silver 892 - 896 0 Free from Hardso Rolling

CIELAB Va	ELAB Value : Free from Porosity Wiring				
Title	YI:D1925	L*	a*	b*	Hardness
Sterling Silver	9.9	93.5	-0.9	5.4	
					Score(110) 1 means less likely to occur or not suitable

10 means most likely to occur or most suitable

Mechanical Properties :

Title	Annealed Hardness	As Casted Hardness	Max. Strength	Yield Strength	Elongation
	(HV)	(HV)	(MPa)	(MPa)	(%)
Sterling Silver	76	80	237	108	28

Recommen	ded Casting Parameters :		(Quenching Time	: 15 - 25	Minutes)			
	Metal		Vacuum-assisted Ca	sting				
	Casting		Investment Temperature (°C)					
Title	Temperature	Thickness of work piece (mm)						
	(0 °)	Thin (<0.5)	Medium (0.5~1.1)	Thick (>1.1)				
Sterling Silver	980-1000	660-700	560-640	440-560				

Recommended Annealing Temperature (°C)			Annealing T	ime for thickness (min)	< 1 mm	1 - 5 mm	> 5 mm		
Sterling Silver	600 - 650				30	35	40		
Process Casting Temperature (°C)			ture (ºC)	Recommended Reductions					
Ingot		980 - 1020		Sheet Thickness %	70				
Continuous Ca	asting	1020 - 1080		Wire Diameter %	45				
Age Harde	ening Parame	eters:							
Process	ess Temperature (°C)		Time (min)	Quenching	Hardness after Age Hardening (HV)				
Age Hardening	g 300		60	Air or in furnace	130				
Technical Ad									
	ation, the alloys mus			ame during casting.					
	n 50 % of old materia								
The old mate	rial must be tumbled								
		,	,	ites to remove the rest of oxic	des.				
The material	ould be placed at the		Additional sprue mu	ust be applied if necessary.					
The material 4. The sprue sh									
The material 4. The sprue sh	is preferred to avoid	any turbulence.							
The material 4. The sprue sh Fluted sprue									
The material 4. The sprue sh Fluted sprue Remarks: The ir		reference only. The	•	d be adjusted according to th	ne particular c	asting condition	IS.		

Main Office Heraeus Technology Centre, 30 On Chuen Street, On Lok Tsuen, Fanling, N.T., Hong Kong, P.R.C. Hunghom Office Room 2111-13, 21/F., Peninsula Square, 18 Sung On Street, Hunghom, Kowloon, Hong Kong, P.R.C. Tel: 852-2675 1200 Fax: 852-2682 3220 E-mail: fm.hlh@heraeus.com

