



# MATERIAL TEST RESULT

MESSRS	UNIMECH ENGINEERING (M) SDN. BHD.
JOB NAME	
JOB No.	
P.O.No.	APO-2004-007
PRODUCT CODE	(TR)F<ZOP02>3/4

Certificate No.  
1020329222-022-01-01-Z1

Date : 2020/07/21



Figure	F<ZOP02>3/4	Valve No.	
Material	JIS H 5120 CAC401	Item No.	50
Charge No.	Display No.	Name of Parts	
1	20022704-1	BODY	
2			
3			
4			

**CHEMICAL COMPOSITION %**

Element	Cu	Sn	Pb	Zn											
Spec.	79.0	2.0	3.0	8.0											
	83.0	4.0	7.0	12.0											
1	80.4	2.8	5.2	11.1											
2															
3															
4															
Element															
Spec.															
1															
2															
3															
4															

TENSION TEST				IMPACT TEST			
Item			Tensile str.	Elongation			
Unit			N/mm2	%			
Spec.			Min	Min			
1			165	15			
2			218	22			
3							
4							

Item									
Unit									
Spec.									
1									
2									
3									
4									

**HEAT TREATMENT °C**

Spec.	
1	
2	
3	
4	

N:Normalizing      A:Annealing      T:Tempering      Q:Quenching      AC:Air Cooling  
 WQ:Water Quenching      OQ:Oil Quenching      WC:Water Cooling      FC:Furnace Cooling      ST:Solution Treatment

REMARKS

Reviewed by \_\_\_\_\_

  
**KITZ CORPORATION**  
 QC Manager

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JOB No.	
P.O.No.	APO-2004-007
PRODUCT CODE	(TR)F<ZOP02>3/4

Certificate No.  
1020329222-022-01-01-Z2

Date : 2020/07/21



Figure	F<ZOP02>3/4	Valve No.	
Material	ASTM B 283 C37700	Item No.	50
Charge No.	Display No.	Name of Parts	
1	210320	CAP	
2			
3			
4			

**CHEMICAL COMPOSITION %**

Element	Cu	Pb	Fe												
Spec.	58.0	1.5	Max												
	61.0	2.5	0.30												
1	58.9	1.7	0.13												
2															
3															
4															
Element	Zn														
Spec.	REM														
1	REM														
2															
3															
4															

**TENSION TEST**

**IMPACT TEST**

Item			Tensile str.	Yield str.	Elongation				
Unit			MPa	MPa	%				
Spec.			Min	Min	Min				
1			345	124	25				
2			437	289	34				
3									
4									

Item									
Unit									
Spec.									
1									
2									
3									
4									

**HEAT TREATMENT °C**

Spec.		
1		
2		
3		
4		

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