

MATERIAL TEST RESULT

MESSRS	UNIMECH ENGINEERING (M) SDN. BHD.
JOB NAME	
JOB No.	
P.O.No.	APO-2004-007
PRODUCT CODE	(TR)F<ZOP02>11/2

Certificate No.
1020329222-024-01-01-Z1

Date : 2020/07/21



Figure	F<ZOP02>11/2	Valve No.	
Material	Other standard	CAC	Item No. 53
Charge No.	Display No.	Name of Parts	
1 19052201-2		BODY	
2			
3			
4			

CHEMICAL COMPOSITION %

Element	Cu	Sn	Pb	Zn											
Spec.	79.0	2.0	3.0	4.0											
	87.0	6.0	7.0	12.0											
1	81.7	3.0	5.2	9.7											
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			236	29					
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

JIS G 0415 2.2

 Reviewed by

KITZ CORPORATION
 QC Manager

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Figure	F<ZOP02>11/2	Valve No.	
Material	JIS H 3250 C 3771 BE	Item No.	53
Charge No.	Display No.	Name of Parts	
1	270219	CAP	
2			
3			
4			

CHEMICAL COMPOSITION %

Element	Cu	Pb													
Spec.	57.0	1.0													
	61.0	2.5													
1	59.0	1.8													
2															
3															
4															

Element	Fe+Sn	Zn												
Spec.	Max	Remainder												
	1.0													
1	0.3	REM.												
2														
3														
4														

TENSION TEST

IMPACT TEST

Item			Tensile str.	Elongation					
Unit			N/mm2	%					
Spec.			Min	Min					
1			315	15					
2			434	33					
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

JIS G 0415 2.2

 Reviewed by

KITZ CORPORATION
 QC Manager

We hereby certify that the articles listed above are satisfactory in accordance with the requirements of the standard and purchase order.