

MATERIAL TEST RESULT

MESSRS	UNIMECH ENGINEERING (M) SDN. BHD.
JOB NAME	
JOB No.	
P.O.No.	APO-2004-0009
PRODUCT CODE	

Certificate No.
1020332040-013-01-01-Z1

Date : 2020/07/06



Figure	UTKM11/2	Valve No.	
	Material ASTM A 351 Gr. CF8M	Item No.	16
	Charge No.	Display No.	Name of Parts
1	L02RM		BODY
2	L04RM		BODY
3			
4			

CHEMICAL COMPOSITION %

Element	C	Mn	Si	S	P	Ni	Cr	Mo								
Spec.	Max	Max	Max	Max	Max	9.0	18.0	2.0								
	0.08	1.50	1.50	0.040	0.040	12.0	21.0	3.0								
1	0.05	0.87	1.21	0.004	0.032	10.0	18.8	2.5								
2	0.05	0.76	1.21	0.010	0.030	10.0	18.9	2.6								
3																
4																
Element																
Spec.																
1																
2																
3																
4																

TENSION TEST

IMPACT TEST

Item			Tensile str.	Yield str.	Elongation				
Unit			MPa	MPa	%				
Spec.			Min	Min	Min				
1			516	254	48				
2			520	251	49				
3									
4									

Item									
Unit									
Spec.									
1									
2									
3									
4									

HEAT TREATMENT °C

Spec.	Min 1040° C WQ
1	ST:1080° C* 1.5h WQ
2	ST:1080° C* 1.5h WQ
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

EN10204 Type 2.2

Reviewed by _____

KITZ CORPORATION
 QC Manager