

TEST CERTIFICATE

HITACHI

CASE No.: 706	Report No.: 182-2223-40	Heat No.: C3306	Date: Jan. 06, 2022	Page: 1/1						
Order No.: 100011460 (001)	Size: MR232 (+1-0) X3000-4500									
Material: DAC	Quantity (pcs.): 1									
Condition: Annealed	Mass (kg): 1262									
Our Ref No.: 59-153-5SCP-01										
3) Hardness (As Shipped)										
2) Heat Treatment										
Test Piece (HT1)										
Q. 1020° C X 15min. AQ										
T. 550° C X 60min. AC										
4) Macrostructure										
5) Microstructure										
6) Decarburization										
7) Hardness After Heat Treatment (HT1)										
1) Chemical Composition %										
Elements	C	SI	MN	P	S	CR	MO	V		
Spec.	0.35 -0.42	0.80 -1.20	0.30 -0.50	MAX 0.030	MAX 0.010	4.80 -5.50	1.20 -1.60	0.50 -1.10		
Ladle	0.39	1.02	0.45	0.017	<0.001	5.07	1.24	0.81		
Item					Spec.	TP No. →	Result	Spec.	TP No. →	Result
GOOD					GOOD	MIN50 HRC	55.8	GOOD	GOOD	GOOD



Conforms To All Drawing and/or Specification Requirements.
We hereby certify that the material described herein has been
made and tested in accordance with the requirements of
the purchase specification with satisfactory results.

Inspection Item	Dimensional Inspection	:GOOD
Visual Inspection	Ultrasonic Inspection	:GOOD
Material Check		:GOOD

K. Tabatake

QUALITY ASSURANCE DEPARTMENT