Address: Survey No. 219-205
Nr. Sintex Health Care, Indrad,
Ta. Kadi, D. Mehsana-382715.
Gujarat (India)
CIN: U27109GJ2014PTC078248
GSTIN : 24AAUCS1323H1ZC

SUN MARK STAINLESS
www.sunmarkstainless.com

SUN MARK STAINLESS PVT. LTD.

Test Certificate

(AS PER EN 10204 3.1)

T.C.NO	SMPL/EXP/21-22/240 (15)	**DATE :**	06-06-21		
CUSTOMER	MERIT BRASS COMPANY				
WO NO	20116-C	**DATE :**	04/02/2021		
P.O.NO	P1008513	**DATE :**	04/02/2021		
PRODUCT	STAINLESS STEEL WELDED ANNEALED & PICKLED ROUND PIPES				
SPECIFICATION	AS PER ASTM A312-18a / ASME SA312-17 NACE MRO103; NACE MRO175	**GRADE : -**	TP304/304L	P5008	

Po.Sr. No.	DESCRIPTION OF PRODUCT	Nos	Total FEET.	Total Kgs
15	1/2"NB (21.35mm OD) X SCH40S (2.77mm THK) X 20 FEET LONG	207	4140	1510.00

CHEMICAL COMPOSITION

Heat No	Chemistry	C %	Si %	Mn %	P %	S %	Ni %	Cr %	Mo%	N%	OTHER
	Required	---	---	---	---	---	8.000	18.000	---	---	---
		0.035	1.000	2.000	0.045	0.030	11.000	20.000	---	---	---
Y210228C29-1	H	0.025	0.440	1.370	0.026	0.002	8.010	18.250	---	---	---
	P	0.028	0.460	1.380	0.028	0.003	8.030	18.260	---	---	---

PHYSICAL TEST

Parameter	Tensile Test	Y.S. (Mpa)	U.T.S (Mpa)	Elongation % (G.L: 50 mm)	Hardness Test(HRB)	IMPACT TEST -N/A	1	2	3	Avg.
Heat No	Required	205	515	35%	90	WELD	---	---	---	---
						HAZ	---	---	---	---
		MIN	MIN	MIN	MAX	PARENT	---	---	---	---
Y210228C29-1	EXP/20116-C/15-A	256.00	580.00	55.35%	70	---	---	---	---	---
	EXP/20116-C/15-B	265.00	590.00	55.45%	77	---	---	---	---	---

FLANGE TEST	N/A
FLATTENING TEST	OK
FLARING TEST	N/A
BEND/R.BEND	N/A
HYDROSTATIC TEST	OK (Done at 2500 PSIG)

Remarks :-

Solution Annealing at Minimum Temp 1040° C with Water Quenching.
Pickling & Passivation carried out as per ASTM A-380 Found satisfactory.
100% Hydrostatic Test carried out as per ASTM A-999 M/S MFG - Found satisfactory.
100% Visual & Dimension Inspection carried out By M/S MFG - Found satisfactory.
Mechanical Test carried out As Per ASTM A-312 by MFG:-Found Satisfactory
Hardness Test carried out by MFG & meet requirement of NACE MRO103; NACE MRO175 and Found Satisfactory
Marking on Pipes : LOGO MFG__NB(__MM OD) X SCH__s (__MM THK) X __ LONG WELDED ASTM A312/ASME SA312 TP 304/304L HEAT NO. __ .
done by MFG : Found Satisfactory
Country of melt: Indonesia

ABBREVIATION: H - Heat Test **P -** Product Test, **RL-** Random Length, **N/A-** Not Applicable, **MFG**-Manufacturer

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MANAGER (QA)

We hereby certify that the material described herein are in accordance with the specification and that results comply with the requirements of the specification