



VIRAJ PROFILES PRIVATE LIMITED (formerly, Viraj Profiles Limited)(SRM Division)
Works: SURVEY NO.- 25/1, 25/2, 26 & 34, Village- MAAN, Taluka- PALGHAR, Dist.- PALGHAR, MAHARASHTRA -401 506, INDIA,
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(A02) INSPECTION CERTIFICATE & MILL TEST REPORT (DIN EN 10204-3.1)

	Manufacturer's Symbol (A04)	A03)MTR NO.	910029645/11
		Z02) DATE	13.12.2023
		MATERIAL SPEC.	
		B02) GRADE	AISI 321
		DIMENSIONAL SPEC.	h9
HSN Code		: 722220	

(B01) : STAINLESS STEEL BRIGHT BARS (B04) DELIVERY CONDITION : COLD DRAWN GROUND - 2G

Approved acc. To AD 2000-Merkblatt W0 and certified acc. To PED (2014/68/EU) by Certification
Body for Pressure Equipment of TUVNORD System (Notified body,reg.no:0045)

(A07)ORDER NO: MS-11/2023 (A09)Article No:

(B09-B11)ITEM DESCRIPTION	LENGTH	(B08) PIECES(Nos)	NET WEIGHT(TO)	(B07) HEAT NO
ROUND 30.000 MM	3.00 - 3.10	44	0.752	DK699

Bundle No 14000472593

(C71-C92) CHEMICAL ANALYSIS

ELEMENT	%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Cu	%Mo	%Ti	%Co	%N
HEAT	0.0230	1.7600	0.5400	0.0050	0.0350	17.4700	9.1000	0.6300	0.3300	0.2400	0.1700	0.0190

MECHANICAL PROPERTIES

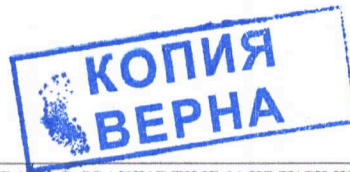
INSPECTION NO.	(C03) TEST TEMP @RT		(C02) TEST DIRECTION L	(C13) Elongation%	Reduction of Area%	Hardness
	(C12) Tensile Strength	Proof Strength	RP=0.2%			
890001563379	MPA	MPA	MPA	Lo-4D	72.00	HBW
	675.00	506.00		43.00		198

METALLURGICAL PROPERTIES

(B03)COROSION TEST	MICRO OBSERVATION	GRAIN SIZE ASTM E-112
IGC TEST AS PER ASTM-A262-15 & DIN EN ISO 3651-2:1998	NO CARBIDE PRECIPITATION OBSERVED ON GRAIN BOUNDARIES	6.0

(B06)PRODUCT MARKING : SIZE, GRADE, HEAT NO., LOGO & INSPECTOR STAMP

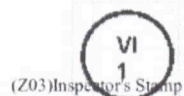
MATERIAL CONFIRMS TO ASTM A276/A276M-17 COND A, ASTM A182, ASTM A479/A479M-23 COND A, ASME SA 479-23, EN 10277-1:2018 Class 3, DIN EN 10088-3:2014.
INTERGRANULAR CORROSION TEST SATISFACTORY AS PER ASTM A262-15 PRACTICE E.
CERTIFIED AS PER EN 10204:2005-3.1. NACE MR 0175-2021/ISO 15156:2020, NACE MR 0103-2015.
GRADE: 1.4541, AISI 321.



REMARKS : MINIMUM SOLUTION ANNEALING TEMPERATURE 1050 C, SOAKING TIME 01 HR/INCH WATER QUENCHED. MATERIAL IS FREE FROM MERCURY CONTAMINATION, FREE FROM WELD OR WELD REPAIRS. WE CONFIRM THAT THE MATERIAL HAS BEEN TESTED AND FOUND TO BE FREE FROM RADIOACTIVE CONTAMINATION.

Emissions data of Bright Bar Products as per ISO 14067:2018: - Emissions in MTCO2/MT of production
Stainless Steel Bright Round, Square and Hex Bars size 2 - 4 MM -1.345, sizes > 4 mm to < 40 MM -1.015, Sizes > 4 mm to < 40 MM Condition Q&T-- 1.063, Size > 40 mm to < 200 MM- 0.993, Sizes > 40 mm to 200 MM Condition Q&T- 1.089, All sizes of forged Bars -1.726 and All sizes of Flat bars-0.917"

We certify that the above material has been inspected and tested and complies with the order/Contract.
The material is manufactured /melted in Viraj Profiles Private Limited Steel Mill and is of Indian Origin.



AUTHORIZED WORKS INSPECTOR
RADHAKRISHNA MURTHY