



JINDAL STEEL & POWER LIMITED
 Works: Chhendipada Road, SH- 63, AtPo : Jindal Nagar, Dist : Angul (ODISHA)-759111 INDIA
 Email: qclab.pm@angul.jspl.com
 Registered Office: Post box No. 6, O P Jindal Marg, Hisar (Haryana)
 Corporate Office : Jindal Center, 12 Bhikaji Cama Palace, New Delhi -110066 INDIA
 Phone No. :-(06761) 254191-95; Fax : -06761 -254141-44



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0045 - CPR - 1835

Date : 01.02.2021

Page 22 of 23

INSPECTION CERTIFICATE

ONIRAM, LDA
 DEP. QUALIDADE
 RECEPÇÃO

20/02/21
 DATA

RUBRICA

Test Certificate No. 0000008988

To, M/s NETWORK STEEL S.L. SPAIN
 CARDENAL MARCELO SPINOLA 2-5 PLTA.28016 MADRID SPAIN CIF 883, SPAIN, PIN-00000

TEST RESULTS

Supply Condition: NORMALIZING ROLLING

Process of Manufacture : EAF->LRF->VD->CCM->RHF->Hot rolling
 (EAF - Electric Arc Furnace / LRF: Ladle Refining Furnace / VD : Vacuum Degassing / CCM : Continuous Casting Machine/ RHF : Re-Heating Furnace)

Deoxidation : Fully Killed

Material Grade : EN10025-2 S355J2+N Plate Dimension -Thickness x Width x Length : 8.000MMX2500MMX12000MM																														
Heat No	Plate ID	Pcs	Wt. MT	Chemical Analysis																	Mechanical Properties									
				L/P	%C	%Mn	%S	%P	%Si	%Al	%Cu	%V	%Nb	%Ti	%Mo	%Ni	%B	%Cr	N2	CE	YS	UTS	%EL*	Bend Test		Impact Value au(J)				
																			ppm	Mpa	Mpa			I	II	III	Avg	Temp °C	Orien	
B10185	B1018502A0	1	1.884	L	0.174	1.31	0.002	0.016	0.19	0.036	0.005	0.001	0.023	0.002	0.0010	0.006	0.0004	0.012	59	0.39	426	546	26		155	143	140	146.00	-20	Lo.
B10185	B1018502B0	1	1.884	L	0.174	1.31	0.002	0.016	0.19	0.036	0.005	0.001	0.023	0.002	0.0010	0.006	0.0004	0.012	59	0.39	426	546	26		155	143	140	146.00	-20	Lo.
B10185	B1018502D0	1	1.884	L	0.174	1.31	0.002	0.016	0.19	0.036	0.005	0.001	0.023	0.002	0.0010	0.006	0.0004	0.012	59	0.39	426	546	26		155	143	140	146.00	-20	Lo.
Sub Total		93	175.21																											
G Total		155	466.88																											

Remarks :

1. Test Certificate as per EN 10204, 2004 Type 3.1
2. Material mentioned above also conforms to EN10025-2 S355J2+N
3. Material also conforms to TDC Doc. No. : JSPL/ANGUL/TDC/- M05140A; Rev.00, Dt.:30.11.2020
4. Dimensional Tolerance: Thickness tolerance found satisfactory as per EN 10029:2011 of Class A
5. Surface Inspection: As per EN10163:2005 class A Subclass 3
6. Flatness: As per EN10029:2011 table 4 class N (L Type)

We hereby certify that Material described herein has manufactured and tested with satisfactory results in accordance with the requirements of the above said material specification. The above material supplied conforms to the specified dimensions and tolerances as per specifications and as per mutually agreed Technical Delivery Conditions

UltraSonic Examination : All the above plates are ultrasonically tested as per EN10160 S1E1 and found ok

Purchase Reference & Date: PROV/EXP/PLT/10037 01.12.2020
 Despatch Advice No:
 Vehicle No.
 " DOP can be viewed at www.jindalsteelpower.com"
 * Gauge Length: 5.65(SO)1/2

Prepared by SRIDHAR.BEHERA
 Preparation Date :01.02.2021 12:13:48
 Printing Date 01.02.2021 & Time 16:24:49

Sridhar Behera
 Authorised Signatory
 TSD PlateMill

For, JINDAL STEEL & POWER LIMITED

REC-PM-TSD-14-41, Rev 01, Eff date : 07.10.2020



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CARDENAL MARCELO SPINOLA 2-5 PL.TA.28016 MADRID SPAIN CIF 883,SPAIN,PIN-000000

TEST RESULTS

Supply Condition: **NORMALIZING ROLLING**

Deoxidation : Fully Killed

Process of Manufacture : EAF->LRF->VD->CCM->RHF->Hot rolling
(EAF - Electric Arc Furnace / LRF:Ladle Refining Furnace / VD : Vacuum Degassing / CCM : Continuous Casting Machine/ RHF : Re-Heating Furnace)

- 7. Test Piece: Chemical as per EN ISO 14284:2003, Tensile as per DIN EN ISO 6892-1:2009 & Impact as per DIN EN ISO 148-1:2011
- 8. CE (DW) : C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15
- 9. Marking details: Mfg. Name, & logo, plate identification, specification & grade, size, customer name & UT Spec.
- 10. Orientation of Sample: Tensile is Longitudinal to rolling direction
- 11. In Chemical Analysis column, L stands for Ladle Analysis & In Mechanical Properties Column, L stands for Longitudinal Direction

We hereby certify that Material described herein has manufactured and tested with satisfactory results in accordance with the requirements of the above said material specification. The above material supplied conforms to the specified dimensions and tolerances as per mutually agreed Technical Delivery Conditions
Ultrasonic Examination : All the above plates are ultrasonically tested as per EN10160 SIE1 and found ok

Purchase Reference & Date: PROV/EXP/PLT/10037 01.12.2020
Despatch Advice No:
Vehicle No.
" DOP can be viewed at www.jindalsteelpower.com "
* Gauge Length: 5.65(SO)1/2
REC-PM-TSD-14-41,Rev 01,Eff date : 07.10.2020

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Sridhar Behera
Authorised Signatory
TSD PlateMill
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