



112.582

MILL TEST CERTIFICATE

Test Certificate No. **0000007373**

Date : 07.04.2020

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

Page 2 of 6

Certified that the material described below fully conforms to EN 10025. Chemical composition and mechanical properties of the product as tested in accordance with the previous of the specification conforms to the grade mentioned there in.

(PLEASE REFER TO EN 10025-2 FOR DETAILS OF SPECIFICATION REQUIREMENT)

Supply Condition: NORMALIZING ROLLING

Deoxidation : Fully Killed

TEST RESULTS

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)

Material Grade : EN10025-2 S275 JR+N Plate Dimension - Thickness x Width x Length : 60.00MMX2130MMX8625MM																														
Heat No	Plate No	No. of Pcs.	Wt. MT	Chemical Analysis																Mechanical Properties										
				LP	%C	%Mn	%S	%P	%Si	%Al	%Cu	%V	%Nb	%Ti	%Mo	%Ni	%B	%Cr	N2	CE	YS	UTS	%EL*	Bend Test		Impact Value at J				
																							Mand Dia	I	II	III	Avg	Temp °C	Orien	
BK0208/11A0	1	1	8.653	L	0.160	0.95	0.004	0.012	0.18	0.025	0.007	0.001	0.001	0.002	0.0010	0.008	0.0004	0.012	47	0.322	295	506	30		115	97	88	100.00	20	Lo
BK0208/11B0	1	1	8.653	L	0.160	0.95	0.004	0.012	0.18	0.025	0.007	0.001	0.001	0.002	0.0010	0.008	0.0004	0.012	47	0.322	295	506	30		115	97	88	100.00	20	Lo
BK0208/12A0	1	1	8.653	L	0.160	0.95	0.004	0.012	0.18	0.025	0.007	0.001	0.001	0.002	0.0010	0.008	0.0004	0.012	47	0.322	295	506	30		115	97	88	100.00	20	Lo
BK0208/12B0	1	1	8.653	L	0.160	0.95	0.004	0.012	0.18	0.025	0.007	0.001	0.001	0.002	0.0010	0.008	0.0004	0.012	47	0.322	295	506	30		115	97	88	100.00	20	Lo
BK0208/13A0	1	1	8.653	L	0.160	0.95	0.004	0.012	0.18	0.025	0.007	0.001	0.001	0.002	0.0010	0.008	0.0004	0.012	47	0.322	295	506	30		115	97	88	100.00	20	Lo
BK0208/13B0	1	1	8.653	L	0.160	0.95	0.004	0.012	0.18	0.025	0.007	0.001	0.001	0.002	0.0010	0.008	0.0004	0.012	47	0.322	293	467	31		77	117	102	98.666	20	Lo
BK0208/14A0	1	1	8.653	L	0.160	0.95	0.004	0.012	0.18	0.025	0.007	0.001	0.001	0.002	0.0010	0.008	0.0004	0.012	47	0.322	293	467	31		77	117	102	98.666	20	Lo
BK0208/14B0	1	1	8.653	L	0.160	0.95	0.004	0.012	0.18	0.025	0.007	0.001	0.001	0.002	0.0010	0.008	0.0004	0.012	47	0.322	293	467	31		77	117	102	98.666	20	Lo
Sub Total		16	138.448																											

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/9050/ 25.11.2019
Despatch Advice No:
Vehicle No.

* Gauge Length: 5.65(SO)1/2

REC-PM-TSD-14-39, Eff date : 26.08.2019

Prepared by SRIDHAR.BEHERA
Preparation Date :07.04.2020 14:49:28
Printing Date 07.04.2020 & Time 16:-8:23

Authorised Signatory
TSD Plate Mill
For, JINDAL STEEL & POWER LIMITED

ONIRAM, LDA
DEP. QUALIDADE
RECEPCÃO

2021/04/22

RUBRICA



MILL TEST CERTIFICATE

Test Certificate No. 0000007373

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

Date : 07.04.2020

Page 6 of 6

Certified that the material described below fully conforms to EN 10025. Chemical composition and mechanical properties of the product as tested in accordance with the previous of the specification conforms to the grade mentioned there in.

(PLEASE REFER TO EN 10025-2 FOR DETAILS OF SPECIFICATION REQUIREMENT)

Supply Condition: NORMALIZING
ROLLING

Deoxidation : Fully Killed

TEST RESULTS

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)

Remarks :

1. Test Certificate as per EN 10204, 2004 Type 3.1
2. Material mentioned above also conforms to EN10025-2 S275JR+N
3. Material also conforms to TDC Doc.No. : JSPL/ANGUL/TDC/-M03630B, Rev.00, Dt.:27.11.2019
4. The Material supplied conforms to the thickness tolerances as per EN10029 Class B
5. Surface Inspection: As per EN10163 class A Subclass 3
6. Flatness as per EN10029 Table 4 Class N (L Type)
7. Reconditioning / Repair of plates by welding not carried out
8. Orientation of Sample: Tensile is Transverse & Impact is Longitudinal to rolling direction.
9. If the percentage concentration of any element is less than 0.001, the column for the respective element will appear blank and in that case it may please be read as less than 0.001%.
10. Columns under mechanical properties will appear blank, if those tests are not opted for.

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/9050/ 25.11.2019
Despatch Advice No:
Vehicle No.

* Gauge Length: 5.65(SO)1/2

REC-PM-TSD-14-39, Eff date : 26.08.2019

Prepared by SRIDHAR.BEHERA
Preparation Date :07.04.2020 14:49:28
Printing Date 07.04.2020 & Time 16:48:23

Authorised Signatory
TSD PlateMill
For, JINDAL STEEL & POWER LIMITED