

| Doc.no.:F-QCD-16 Issue no.:1.0 Date: 01.08,2013 | | TEST CERTIFICATE AS PER EN-10204-3.1 | | | | | | | | | | | | | | | | |
|---|--|--------------------------------------|---------------------|---|--------------------|---|----------------|---|---------------|------------|--------------|--------------------|---------------------------------------|---|-----------------------|--|--|--|
| Approved By:M.R. CUSTOMER:- | | S.S.B. ENGINEERS (P) LTD | | | | | | GRADE :- | | S690QL | | | NO.:- | | RND/26 07.04.2025 | | | |
| COSTON | | | | | | | Inv. No. SA254 | | | 00 | 020 | 1 | Inv. Dt. | | | | | |
| P.O. No. & Dt | 2024-25N 81 Dt. 11.03.2025 ROLLED BAR | | | | | | | AND THE RESIDENCE OF THE PARTY | | | | | <u>.</u> | | | | | |
| Product | L/22-23/ | Mfg. Route | | | | | | | | | | | | | | | | |
| Feasibility N | 0. | KU | 1/22-23/ | 1005, RE | V. 140.5 D | 1, 20,00,2 | | DESC | | | <u>i</u> | | | | | | | |
| Heat No. | | S | ize | | No. Of Pcs. Qty Ir | | | | | | | | | | | | | |
| K24-2129 | | 106 MM DIA | | | 20 9.3 | | | 85 | | | | | | | | | | |
| CHEMICAL ANALYSIS % | | | | | | | | | | | | | | | | | | |
| % EI | LEMENT | | С | C Mn | | SI S | | Cr | Мо | Mo Ni | | Nb Ti | | В | V | Zr | N . | |
| SPEC. | MI | N. | *** | *** | | | *** | ļ | *** | 4+, | *** | | | *** | *** | | *** | |
| Jret. | M | ΑX | 0.20 | 1.70 | 0.80 | 0.010 | 0.025 | 1.50 | 0.70 | 2.00 | 0.06 | 0.05 | 0.50 | 0.005 | 0,12 | 0.15 | 0.015 | |
| Acl | hieved | | | | | Che | emical | Compo | sition | confirr | ning to | the s | pecific | ation. | | | | |
| | | | | | MECH | ANICA | L PROI | PERTIE | S (On | н&т: | Sample | Only) | | | | | | |
| Test piece le | | .5 mm | | Tensile | | Yield Strength | | gation | | | Hard | ness | | Impact | | CVN) Longitudinal | | |
| fron | n surface | | Strength (Mpa) | | (Mpa) | | | | | | | IN) | | *************************************** | | @ -40 °C 30J Min. | | |
| SPEC. | | IN. | 710 | | 630 | | 14 | | İ | - | | | <u>-</u> | | | | | |
| Achieved | | AX | ļ | 900 850,3 | | 752.3 | | 20.6 | | - | | | 124 | 126 | 128 | 128 Avg. 126J | | |
| Au | Heveu | | 1 00 | Jomin | 1 | | | | | | RAW | MATE | MATERIAL DETAIL | | | | | |
| Distance in mm - - | | | | | | | | T - | | | - | | | | | | | |
| DISTANCE. | ~~~~~ | Min | | - | - | - | - | - | - | - | - | INGOT SIZ | | | | | | |
| Spec. | MAX | | - | | | - | - | | - REDI | | UCTION RATIO | | | | | | | |
| Achiev | red | | <u> </u> | <u> </u> | | NO | N DES | TRUCT | TIVE T | ESTIN | iG | <u> </u> | | | <u> </u> | | | |
| | Ultraso | nia To | cting | | Dve | Peneti | | | | | ticle Insp | ection | | | Mixup | Test | | |
| *************************************** | Uitraso | ************ | A A388, | *************************************** | | Managaman m | | | | Ref. Std. | | 1 | | Spark test | | The state of the s | | |
| Ref. Std. | Probe: ø24mm, 2MF | | | ЛНZ | Ref. Stnd. | | | | Rei. Stu. | | **** | | · · · · · · · · · · · · · · · · · · · | | 100% Done & found | | | |
| Acceptance | 4mm FBH on DGS | | | icale | Accept | Acceptance | | *** | | Acceptance | | **** | | Mobile | | Satisfactory | | |
| Result | F | Found Satisfactory | | | Result | | | | Result | | | | Spectro | | | | | |
| | | | | | | M | ETALL | URGIO | CAL TI | ESTIN | G | | | | | | | |
| INCLUSION RATING (ASTM E45) | | | | | | GRAIN SIZE MI | | | CRO STRUCTURE | | | MACRO (ASTM E38 | | STEP DOWN TEST | | EST | | |
| | A | В | C D | | | | | | | | | etter th | tterthan | | | | | |
| THIN | 0.5 - | | - | 1.0 | | 6.5-7.0 | | *************************************** | | | . C2 R2 S | | | | Decarburization Depth | | | |
| THICK | | | | | 4000 | - | | | | | - | | J. 004115 | | GE GDE | GE-GREY-PINK - BLUE SPOT | | |
| IDENTIFICA | | | 2000 | | | marked | | | | | | lour C | oae | URAN | GE-GKE | -PINA - E | | |
| Result: | | | | | | ternal, s | | | | | | | | | | | | |
| We herek | y certi | fy that | produc | ts has b | een ma | anufact | ured,ins | pected | and fo | ound a | cceptai | ole as p | Ercha | comeri | equirer | nents. | · · · | |
| OM Repared B | inlo | J, | | | | | Review | MAN AND AND AND AND AND AND AND AND AND A | SH- | | IMIT | S.B ENG | THE TANK | Arcist Arcist | | OUSTIN | GS TO STATE OF THE PARTY OF THE | |
| | | | | , | | 15CO 27100PI | | FC0360 | • | • | | | ZZ | N AN | in the | | | |
| Gun Mar | u Ki Nagr ndi Gobin | i, Bhadl doarh. F | a Road, PUNJAB-1 | 147301.IN | | | 99991-16 | 1 | _ | 1-1765-2 | | | - | costeel.co | | Www.kis | o skinhill costeel.com | |