**TEST CERTIFICATE FOR CARBON/ALLOY STEEL BILLETS FOR RE-ROLLING INTO GENERAL/STRUCTURAL PURPOSES.**  
  
It is certified that the material described below fully confirms to IS: 2830: 2012 Chemical Composition tested in accordance with scheme of testing and inspection contained in BIS certification marks License.

**License Serial No. - ES/BIS/2830/7600107011.**

|  |  |
| --- | --- |
| **Inv. No. 1** | **Date - 1** |
| **Po. No. 1** | **Po. Date - 1** |
| **Total Qty. - 10** | **Vehicle No. - 1** |
| **Total Pcs. - 1** | |

**BUYER :- MADHUSUDAN**

**CHEMICAL COMPOSITION**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Size MM** | **Heat No.** | **Pcs** | **C %** | **Mn %** | **P %** | **S %** | **AL %** | **CR %** | **NI %** | **MO %** | **CU %** | **V %** | **Si %** | **CE %** | **Grade** | **Color Code** |
| **100X100** | **K033** |  | 0.24 | 0.60 | 0.045 | 0.023 | 0 | 0.09 | 0 | 0 | 0 | 0 | 0.23 | 0 | **MS** | **LIGHT BLUE** |
| **100X100** | **K036** |  | 0.25 | 0.55 | 0.039 | 0.034 | 0 | 0.14 | 0 | 0 | 0 | 0 | 0.24 | 0 | **MS** | **LIGHT BLUE** |
| **100X100** | **K038** |  | 0.24 | 0.58 | 0.042 | 0.040 | 0 | 0.11 | 00 | 0 | 0 | 0 | 0.21 | 0 | **MS** | **LIGHT BLUE** |

**PHYSICAL PARAMETERS**

* All Physical Properties are as per & within IS 2830:2012 Requirements & Tolerances.
* The material is free from Radioactive Contamination, Lead, Mercury and Surface Defects.
* The material is Argon Purged through the ladle.
* **ALL CLOSE CAST BILLETS OF MS ARE COLORED LIGHT BLUE AT ONE END.**

**Process Route - EIF-CCM**

**Q.C.**

**ELAF STEEL**