



Certificate No : MD00/0720/0009/1

ARCELORMITTAL WARSZAWA Sp. z.o.o.
ul. Kasprowicza 132
01-949 Warszawa
Poland

has been approved as a manufacturer in accordance with the requirements of Lloyd's Register for :-

Steelmaking, Semi-Finished Products and Bars

This approval is subject to compliance with the Rules for the Manufacture, Testing and Certification of Materials. The full details of the processes and grades to which this approval applies are given in the Appendix of this certificate.

Lloyd's Register is to be notified of any change that may affect the validity of this Certificate.

This Certificate is issued to the above manufacturer and is valid until the date given below.

Valid Until : 31 July 2021
Date of Issue : 24 October 2018

A handwritten signature in blue ink, appearing to read 'Clive Arnold', is written over a horizontal line.

Clive Arnold

Senior Metallurgical Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group



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Appendix 1

ARCELORMITTAL WARSZAWA Sp. z.o.o.
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01-949 Warszawa
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| Steelmaking | E.A.F./Ingot/Con Cast | Grades | tonnes Maximum |
|------------------------|-----------------------|---------------------------------|----------------------|
| Semi-Finished Products | Ingots (tonnes) | As below | 25.0 |
| - | - | carbon, carbon-manganese, alloy | |
| Semi-Finished Products | Blooms/Billets | Grades | mm thickness Maximum |
| As cast | - | carbon, carbon-manganese, alloy | 220.0 |
| Bars | Structural | Grades | mm thickness Maximum |
| As Rolled | - | carbon, carbon-manganese | 65.0 |
| Normalized | - | carbon, carbon-manganese | 65.0 |
| Quenched and Tempered | - | alloy | 65.0 |
| Bars | Machinery | Grades | mm thickness Maximum |
| As Rolled | - | carbon, carbon-manganese | 65.0 |
| Normalized | - | carbon, carbon-manganese | 65.0 |
| Quenched and Tempered | - | alloy | 65.0 |

Approval for semi finished products in steel types carbon, carbon-manganese and alloy, covers the supply of ingots, blooms and billets for processing into grades according to the Society's Rules for the Manufacture, Testing and Certification of Materials, Chapters 3 to 6. The final processing works is responsible for ordering steel which complies with their approved chemical composition and enables them to achieve the required mechanical properties.

The category "Machinery" indicates that the bar has been subject to a rolling reduction of at least 6:1 and with appropriate heat treatment can be suitable for use as a substitute for a forging, when supplied in accordance with LR Rules, Part 2, Chapter 5.

The category "Structural" indicates that the bar has been subject to a rolling reduction of at least 3:1 and with appropriate heat treatment can be suitable for use as a structural round bar, when supplied in accordance with LR Rules Part 2, Chapter 3.

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