



Approved Manufacturer of Steel Plates, Strip, Sections & Bars

Manufacturer **Arcelor Mittal Warszawa Sp. z o.o.**

Address ul. Kasprowicza 132, Warszawa, 01-949, Poland

Type Semi-Finished Products

Steel Making

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 on subsequent pages of this certificate.

This certificate is issued to the named manufacturer, and is valid until the expiry date specified. Lloyd's Register is to be notified of any change that may affect the validity of this certificate, and reserves the right to cancel or withdraw this certificate.



71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Lili Hou

Metallurgy Team Leader to Lloyd's Register
EMEA
A member of the Lloyd's Register group

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Steel Making	E.A.F. / Ingot	Grades	Maximum Weight	Units
-	-	As below	25.00	Tonnes
Steel making	E.A.F. / Con Cast	Grades	Maximum Thickness	Units
-	-	As below	220.00	mm
Semi-Finished Products	Ingots (tonnes)	Grades	Maximum Weight	Units
-	-	Carbon	25.00	Tonnes
-	-	Carbon-manganese	25.00	Tonnes
-	-	Alloy	25.00	Tonnes
Semi-Finished Products	Blooms/Billets	Grades	Maximum Thickness	Units
As cast	-	Carbon	220.00	mm
As cast	-	Carbon-manganese	220.00	mm
As cast	-	Alloy	220.00	mm
Bars	Structural	Grades	Maximum Thickness	Units
As Rolled	-	Carbon	65.00	mm
As Rolled	-	Carbon-manganese	65.00	mm
Normalized	-	Carbon	65.00	mm
Normalized	-	Carbon-manganese	65.00	mm
Quenched and Tempered	-	Alloy	65.00	mm
Bars	Machinery	Grades	Maximum Thickness	Units
As Rolled	-	Carbon	65.00	mm
As Rolled	-	Carbon-manganese	65.00	mm
Normalized	-	Carbon	65.00	mm
Normalized	-	Carbon-manganese	65.00	mm
Quenched and Tempered	-	Alloy	65.00	mm



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Additional Remarks

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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