



Certificate No : MD00/0883/0003/1

**DOOSAN HEAVY INDUSTRIES & CONSTRUCTION CO., LTD.**  
**Changwon Plant**  
**22, Doosanvolvo-ro,**  
**Seongsan-gu,**  
**Changwon,**  
**Kyungnam,**  
**Korea**

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

**Steelmaking and Semi-Finished Products**

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 : 07 March 2022**  
**Date of Issue : 01 May 2019**

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

DOOSAN HEAVY INDUSTRIES & CONSTRUCTION CO., LTD.

Changwon Plant  
22, Doosanvolvo-ro,  
Seongsan-gu,  
Changwon,  
Kyungnam,  
Korea

<b>Steelmaking</b>	<b>E.A.F. / Ingot</b>	<b>Grades</b>	
		As below	
<b>Semi-Finished Products</b>	<b>Ingots (tonnes)</b>	<b>Grades</b>	<b>tonnes Maximum</b>
-	Killed	carbon, carbon-manganese, alloy, austenitic stainless	500.0

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**Clive Arnold**  
Senior Metallurgical Specialist to Lloyd's Register EMEA  
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