



# DECLARATION OF PERFORMANCE

According to annex III of European Regulation (EU) No. 305/2011



1. Unique identification code of the product:

**NEXUS SG3 MIG WIRE - EN ISO 14341-A:G50 5 M21 4Si1/G46 3 C1 4Si1**

2. Type, batch of serial number or any other element allowing of the constructional product as required under article 11(4):

**GMAW/GTAW-product, with description containing NEXUS SG3**

3. Intended use or uses of the construction product in accordance with the applicable harmonised technical specification, as foreseen by the manufacture:

**Welding consumables used in metallic structures or in composite metal and structures**

4. Name registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(S):

**ISS Redfield Road, Lenton, Nottingham NG7 2UJ [isstechsupport@boc.com](mailto:isstechsupport@boc.com) [www.nexusweld.com](http://www.nexusweld.com)**

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tacks specified in article 12 (2):

**Not applicable**

6. System or systems of assessment and verification of constancy of performance of the constructional product according to Regulation (EU) No 305/2011, Annex V:

**System 2+**

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard :

**Notified factory production control certification body No.0035 TUV Rheinland Industrie Service GmbH. AM Grauen Stein, 51105 Koln, Germany -performed the initial inspection of the manufacturing plant and of factory production control and continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity of the factory production control Certificate n. 0035-CPR-C932.**

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued

**Not applicable**

## 9. Declared performance

Essential characteristics (EN13479)	Performance	Harmonised Technical Specification
Tolerances and dimensions	<b>Passed (EN ISO 544)</b>	
Tensile strength	<b>500-720 MPa (EN ISO 14341-A)*</b>	
Yield Strength	<b>≥500 MPa (EN ISO 14341-A)*</b>	
Elongation	<b>≥18% (EN ISO 14341-A)*</b>	
Impact Toughness	<b>≥32/47J@ -50°C (EN ISO 14341-A)*</b>	<b>EN 13479:2004</b>
Chemical Composition	<b>4Si 1(EN ISO 14341-A)</b>	
Durability	<b>Passed</b>	
Dangerous substance	<b>No dangerous substance determined</b>	
Emission of radioactivity	<b>N/A**</b>	

**\*These performances related to the all-weld-metal test conditions as stated in EN ISO 15792-1**

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and behalf of the manufacturer by

30<sup>th</sup> June 2014 Nigel Hasted – Technical Specialist Welding

**\*\*Welding Exposure scenarios and the material Safety Data Sheets according to European regulation 1907/2006 are available at [www.nexusweld.com](http://www.nexusweld.com)**