

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 8436 Accredited to ISO/IEC 17025:2017	Oracle Test Laboratory part of LoneStar Fasteners Hydrobolt Ltd Issue No: 015 Issue date: 24 December 2024	
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Testing performed at the above address only		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS, ALLOYS and METAL PRODUCTS	<u>Mechanical Tests</u> <u>Tensile:</u>	
	Tensile at ambient temperatures (Force up to 600 kN)	BS EN ISO 6892-1:2019 ASTM E8/E8M-22 Method B ASTM A370-23
	Tensile at elevated temperatures up to 1000°C (Force up to 600 kN)	BS EN ISO 6892-2 :2018 ASTM E21-20
	Impact: Charpy V and U notch (-196°C and -101°C to ambient temperature)	BS EN ISO 148-1:2016 ASTM E23-24 ASTM A370-23
	Brinell testing (HBW 10/3000 & 5/750)	BS EN ISO 6506-1:2014 ASTM E10-23 ASTM A370-23
	Rockwell Hardness (HRB & C)	BS EN ISO 6508-1:2016 ASTM E18-24
	Vickers Hardness (micro indentation)	BS EN ISO 6507-1 :2018 ASTM E92-23 ASTM E384-22
	Determination of decarburisation and carburisation	ASTM F2328/F2328-17(2022)
	Macroetch testing for steel and alloy	ASTM 604/604M-07(2022) ASTM E381-2022
	Microstructure analysis	DIHM TH148



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21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

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Issue No: 015 Issue date: 24 December 2024

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS, ALLOYS and METAL PRODUCTS (cont'd) Fasteners	<u>Mechanical Tests</u> <u>Tensile</u> (cont'd): Grain size determination Inclusion content Stress Rupture at ambient temperature and elevated temperatures up to 1000°C Tensile strength and tensile strength under wedge loading at ambient temperatures (Force up to 1000 kN) Proof Load	ASTM E112-2024 Method A ASTM E45-18a Method A ASTM E139-11(2018) ASTM E292-18 BS EN ISO 3506-1:2020 Sec 7.2 BS EN ISO 898-1:2013 ASTM F606/F606M-21 BS EN ISO 898-2:2012 ASTM A194/A194M-22 ASTM A962/A962M-22
END		