


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>UKAS</b> TESTING</p> <p>8436</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p><b>Oracle Test Laboratory</b> <b>part of LoneStar Fasteners Europe Ltd</b></p> <p>Issue No: 011    Issue date: 14 May 2021</p>	
	<p><b>Universal Point</b> <b>Steelmans Road</b> <b>Wednesbury</b> <b>West Midlands</b> <b>WS10 9UZ</b></p>	<p><b>Contact: Mr I James</b> <b>Tel: +44 (0) 1902 604162</b> <b>Fax: +44 (0) 1902 604163</b> <b>E-Mail: lan.james@lsfe.com</b> <b>Website: www.lonestargroup.com</b></p>
<p><b>Testing performed at the above address only</b></p>		

### 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 Method A ASTM E8/E8M-16a Method B ASTM A370-19
	Tensile at elevated temperatures up to 1000°C (Force up to 600 kN)	BS EN ISO 6892-2 :2018 ASTM E21-17
	Impact: Charpy V and U notch (-196°C and -101°C to ambient temperature)	BS EN ISO 148-1:2016 ASTM E23-18 ASTM A370-19
	Brinell testing (HBW 10/3000 & 5/750)	BS EN ISO 6506-1:2014 ASTM E10-18 ASTM A370-19
	Rockwell Hardness (HRB & C)	BS EN ISO 6508-1:2016 ASTM E18-20
	Vickers Hardness (micro indentation)	BS EN ISO 6507-1 :2018 ASTM E92-17 ASTM E384-17
	Determination of decarburisation and carburisation	ASTM F2328/F2328-17
	Macroetch testing for steel and alloy	ASTM 604/604M-07(2017) ASTM E381-01(2012)
	Microstructure analysis	DIHM TH148
Grain size determination	ASTM E112-13 Method A	
Inclusion content	ASTM E45-18a Method A	



Accredited to  
ISO/IEC 17025:2017

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

**Oracle Test Laboratory part of LoneStar Fasteners Europe  
Ltd**

**Issue No:** 011 **Issue date:** 14 May 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Fasteners	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 E139-11(2018) ASTM E292-18  BS EN ISO 3506-1:2020 Sec 7.2 BS EN ISO 898-1:2013 ASTM F606/F606M-19  BS EN ISO 898-2:2012 ASTM A194/A194M-20a ASTM A962/A962M-18
END		