


# 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>0328</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p><b>WFEL Limited</b></p> <p>Issue No: 037 Issue date: 26 July 2021</p>	
	<p>Sir Richard Fairey Road Heaton Chapel Stockport Greater Manchester SK4 5DY</p>	<p>Contact: Imran Raza Tel: +44 (0)161-975 5700 Fax: +44 (0)161-431 3575 E-Mail: Imran.Raza@wfel.com Website: www.wfel.com</p>
<p>Testing performed at the above address only</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	<p><u>Mechanical Tests</u></p> <p>Tensile testing at ambient temperature (Forces 0.5kN to 600kN)</p> <p>Vickers hardness (HV5, HV10, HV30)</p> <p>Bend tests</p> <p><u>Metallurgical Tests</u></p> <p>Grain size determination</p>	<p>BS EN ISO 6892-1:2019 (Method B) BS EN 2002-1:2005</p> <p>BS EN ISO 6507-1: 2018</p> <p>BS EN ISO 7438:2020</p> <p>ASTM E112-13 Documented In-House Method PCP14 (comparative method) ASTM E1382-97(2015) (semiautomatic and automatic image analysis) Documented In-House Method S1-41 (image analysis technique)</p>
FERROUS and NON-FERROUS CASTINGS, FORGINGS, PLATE and WELDMENTS	<p><u>Non-Destructive Tests</u></p> <p>*X-Radiography 40 keV to 300 keV</p> <p>*Ultrasonic testing (Manual contact method)</p>	<p>BS EN ISO 17636 Parts 1&amp;2:2013 BS 2600:Part 1:1983 (Withdrawn) BS 2600:Part 2:1973 (Withdrawn) BS 2910:1986 (Withdrawn)</p> <p>BS 3923:Part 1:1986 (Withdrawn) BS 5996:1993 (Withdrawn) BS EN ISO 17640:2018 BS EN 10160:1999 BS EN 10228-3:2016</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FERROUS and NON-FERROUS CASTINGS, FORGINGS, PLATE and WELDMENTS (cont'd)	<p><u>Non-Destructive Tests</u> (cont'd)</p> <p>*Liquid penetrant inspection (Manual application - Colour contrast)</p> <p>*Magnetic particle inspection (Portable &amp; Universal technique using black ink)</p> <p>*Under the supervision of suitably authorised personnel</p>	<p>BS EN ISO 3452-1:2013 BS 6443:1984 (Withdrawn)</p> <p>BS 6072:1981(1986) (Withdrawn) BS EN ISO 17638:2016 BS EN 10228-1:2016 BS EN ISO 9934-1:2016 BS EN 12680-1:2003</p>
WELDMENTS	<p><u>Mechanical, Metallurgical and Non-Destructive Tests</u></p> <p>Tests designated in specified welding codes - as detailed below: Bend, Fracture, Hardness, Tensile, Macro-examination, Micro-examination, Liquid Penetrant* Magnetic Particle*, Radiographic examination*</p> <p>*Under the supervision of suitably authorised personnel</p>	<p>BS EN ISO 9606-1:2017 BS 4872:Part 1:1982 BS 4872:Part 2:1976 BS EN ISO 9606-2:2004 BS EN ISO 15614-1:2017+A1 :2019 BS EN ISO 15614-2:2005 BS EN ISO 17637:2016 BS EN ISO 9017:2018 BS EN ISO 17639:2013 BS EN ISO 4136:2012 BS EN ISO 5178:2019 BS EN ISO 9015-1:2011 BS EN ISO 17638:2016 BS EN ISO 5173:2010+A1:2011</p>
END		