# Energy, Power, Oil and Gas

Rotech is a UKAS accredited metallurgical testing laboratory to ISO 17025, and we are fully equipped to meet your specific needs and requirements within the progressive Energy, Power, Oil and Gas industry sectors.

Our laboratories provide an extensive range of disciplines for testing, which, when coupled with our years of professional expertise and enthusiasm, can help deliver the guidance and assurance needed to validate and develop your products with confidence.

## Rotech Laboratories can help you

We work to ASTM, API5L, API 6A718. We test to well-known company standards including Aker, BP, Cameron, Clyde Union, DEF Stan, Dresser Rand, FMC, GE, NES, Norsok, One Subsea, Shell, Statoil, Total, VGS, Wellstream and many other third party end user specifications including the nuclear power industry. We complement your own process quality assurance procedures with chemical analysis, corrosion, welding testing (procedures, welder qualifications / performance and routine production welding QC), metallurgical and failure investigation testing.

Rigorous test techniques that verify components conform to specification are regarded as particularly important for global sourcing of products and components.

We provide independent scrutiny with all analytical data to ISO 17025 accreditation.

If you have problems with component or process failure, we can investigate as to “how and why”. Importantly we can help to avoid future repetition of the same failure. We can provide vital technical support to assist you.

## Principal Product Tests

- ASTM A923 – Intermetallic phases in duplex stainless steels
- ASTM G48 - Pitting and crevice corrosion
- ASTM A262 - Intergranular attack in austenitic stainless steels
- ASTM E562 - Ferrite content by volume fraction
- ASTM E112 - Grain size
- ASTM G28 - Intergranular corrosion in wrought nickel rich alloys
- Chemical analysis including nitrogen and full mechanical and metallurgical tests
- ANSI/NACE MR0103 and MR0175/ISO 15156 Parts 1-3 – sulphide stress corrosion cracking resistance requirements

## Principal Alloys

Durehete 1055, 21CrMoV 5-7, Jethete X19/X20, UNS N08825, UNS S 32760, UNS S 31254, UNS S 31803, UNS N06625, UNS S 32205, UNS S 32750, UNS S 32550, UNS N08367, UNS N08926, Monel 400 (UNS N0440), Monel K500 (UNS N05500), Nimonic 80A (UNS N07080), Inconel 718 (UNS N07718) plus other nickel alloy grades, Waspaloy (UNS N07001), Alloy A-286 (660 material) (UNS S66286) and titanium alloys.

**Manufacturing Areas Covered** All process piping such as flanges, fittings and linepipe-either seamless or welded (see our separate data sheet re Welding and Fabrication) • Petrochemical • Power generation • Renewable energy • Weldments and weld testing-procedures and welder qualification/performance • Bolting and Fasteners (see our separate data sheet re Fasteners)

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