

API Specification

8A

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Drilling and Production Hoisting Equipment

Supplementary Requirements

12 Supplementary Requirements

One or more of the following supplementary requirements shall apply only when specified by the purchaser in the inquiry, contract, and order. Details of these supplementary requirements shall be as agreed upon by the manufacturer and the purchaser.

12.1 SR1 – Magnetic Particle Examination

All accessible surfaces of the main load carrying components of the equipment shall be examined by a magnetic particle examination method or technique conforming to the requirements of ASTM E709: *Recommended Practice for Magnetic Particle Examination*. Acceptance limits shall be as agreed upon by the manufacturer and the purchaser.

12.2 SR2 – Liquid Penetrant Examination

All accessible surfaces of the main load carrying components of the equipment shall be examined by a liquid penetrant examination or technique conforming to the requirements of ASTM E165: *Recommended Practice for the Liquid Penetrant Examination Method*. Acceptance limits shall be as agreed upon by the manufacturer and the purchaser.

12.3 SR3 – Ultrasonic Examination

Main load carrying components of the equipment shall be ultrasonically examined in accordance with applicable ASTM standards. The extent of examination, method of examination, and basis for acceptance shall be agreed upon by the manufacturer and purchaser.

12.4 SR4 – Radiographic Examination

Main load carrying components of the equipment shall be examined by means of gamma rays or x-rays. The procedure used shall be in accordance with an ASTM or other nationally recognized standard which covers ultrasonic examination of the product inspected (e.g., casting, forging, bar, plate, etc.). The extent of examination, method of examination, and the basis for acceptance shall be agreed upon by the manufacturer and purchaser.

12.5 SR5 – Traceability

The manufacturer shall have reports of chemical analysis, heat treatment and mechanical property tests for the main load carrying components of the equipment.

12.6 SR6 – Welding

All welding undertaken on components shall be performed using welding procedures which are qualified in accordance with one of the following and/or other national standards:

- a. ASME IX
- b. AWS D1.1
- c. ASTM A488

This welding shall only be carried out by welders or welding operators who are qualified in accordance with the aforementioned standards.

Welding procedures for base metals which are not listed in the above standards shall be qualified individually or as a group based on weldability, tensile properties, or composition.

12.7 SR7 – Extreme Low Temperature

The acceptability of equipment intended for operation at temperatures below 0°F shall be agreed upon by the manufacturer and the purchaser.

12.8 SR8 – Other Supplementary Requirements

Any additional supplementary requirements must be agreed upon by the purchaser and manufacturer.