

Heat Treatment Services—Continuous Line for Equipment Used in the Petroleum and Natural Gas Industry

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Suggested revisions are invited and should be submitted to the Standards Department, API, 200 Massachusetts Avenue, NW, Suite 1100, Washington, DC 20001, standards@api.org.

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Heat Treatment Services—Continuous Line for Equipment Used in the Petroleum and Natural Gas Industry

1 Scope

1.1 Purpose

This standard specifies requirements for the qualification of suppliers of continuous line heat treatment services used in the manufacture of equipment for the petroleum and natural gas industries.

1.2 Applicability

This standard is applicable to suppliers providing heat treatment services where API product standards specify this standard as a requirement for conformance. The requirements of this standard apply to continuous and semi-continuous heat treatment operations that can establish or affect the final mechanical properties. For batch type heat treatment refer to API 20H. This standard is applicable to products in tubular, bar, plate, forgings, castings and upset forged forms. Heat treat that imparts surface hardening or case hardening is outside the scope of this document.

NOTE This standard does not limit the responsibility of any manufacturer of commercial products using continuous line heat treatment services and manufactured to an API standard from its responsibility for compliance with all applicable requirements of that API standard.

2 Normative References

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any addenda) applies.

API Specification Q1, *Specification for Quality Management System Requirements for Manufacturing Organizations for the Petroleum and Natural Gas Industry*

ISO 9001, *Quality management systems—Requirements*

3 Terms, Definitions, Acronyms, and Abbreviations

3.1 For purposes of this standard, the following terms, definitions, acronyms, and abbreviations apply.

3.1.1

acceptance criteria

Defined limits placed on characteristics of materials, processes, products or services.

3.1.2

continuous furnace

Heating device through which material is moved intentionally at a constant rate during the processing cycle.

3.1.3

cycle time

Time within the furnace for austenitizing or tempering.

3.1.4

final inspection

The final visual examination, and documentation release of the heat-treated material.