



AMERICAN PETROLEUM INSTITUTE

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# API Standard 530

## Calculation of Heater-tube Thickness in Petroleum Refineries

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This standard specifies the requirements and gives recommendations for the procedures and design criteria used for calculating the required wall thickness of new tubes and associated component fittings for fired heaters for the petroleum, petrochemical, and natural gas industries. These procedures are appropriate for designing tubes for service in both corrosive and noncorrosive applications. These procedures have been developed specifically for the design of refinery and related fired heater tubes (direct-fired, heat-absorbing tubes within enclosures). These procedures are not intended to be used for the design of external piping.

This standard does not give recommendations for tube retirement thickness; Annex A describes a technique for estimating the life remaining for a heater tube.

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# Contents

	Page
<b>1</b>	<b>Scope</b> . . . . . <b>1</b>
<b>2</b>	<b>Normative References</b> . . . . . <b>1</b>
<b>3</b>	<b>Terms and Definitions</b> . . . . . <b>2</b>
<b>4</b>	<b>General Design Information</b> . . . . . <b>4</b>
<b>4.1</b>	<b>Information Required</b> . . . . . <b>4</b>
<b>4.2</b>	<b>Limitations for Design Procedures</b> . . . . . <b>5</b>
<b>5</b>	<b>Design</b> . . . . . <b>5</b>
<b>5.1</b>	<b>General</b> . . . . . <b>5</b>
<b>5.2</b>	<b>Equation for Stress</b> . . . . . <b>8</b>
<b>5.3</b>	<b>Elastic Design</b> . . . . . <b>8</b>
<b>5.4</b>	<b>Rupture Design</b> . . . . . <b>9</b>
<b>5.5</b>	<b>Intermediate Temperature Range</b> . . . . . <b>9</b>
<b>5.6</b>	<b>Minimum Allowable Thickness</b> . . . . . <b>9</b>
<b>5.7</b>	<b>Minimum and Average Thicknesses</b> . . . . . <b>9</b>
<b>5.8</b>	<b>Equivalent Tube Metal Temperature</b> . . . . . <b>10</b>
<b>5.9</b>	<b>Component Fittings</b> . . . . . <b>14</b>
<b>6</b>	<b>Allowable Stresses</b> . . . . . <b>16</b>
<b>6.1</b>	<b>General</b> . . . . . <b>16</b>
<b>6.2</b>	<b>Elastic Allowable Stress</b> . . . . . <b>16</b>
<b>6.3</b>	<b>Rupture Allowable Stress</b> . . . . . <b>16</b>
<b>6.4</b>	<b>Rupture Exponent</b> . . . . . <b>16</b>
<b>6.5</b>	<b>Yield and Tensile Strengths</b> . . . . . <b>16</b>
<b>6.6</b>	<b>Larson-Miller Parameter Curves</b> . . . . . <b>16</b>
<b>6.7</b>	<b>Limiting Design Metal Temperature</b> . . . . . <b>17</b>
<b>6.8</b>	<b>Allowable Stress Curves</b> . . . . . <b>17</b>
<b>7</b>	<b>Sample Calculations</b> . . . . . <b>20</b>
<b>7.1</b>	<b>Elastic Design</b> . . . . . <b>20</b>
<b>7.2</b>	<b>Thermal-stress Check (for Elastic Range Only)</b> . . . . . <b>22</b>
<b>7.3</b>	<b>Rupture Design with Constant Temperature</b> . . . . . <b>25</b>
<b>7.4</b>	<b>Rupture Design with Linearly Changing Temperature</b> . . . . . <b>28</b>
<b>Annex A</b>	<b>(informative) Estimation of Allowable Skin Temperature, Tube Retirement Thickness, and Remaining Life</b> . . . . . <b>A-1</b>
<b>Annex B</b>	<b>(informative) Calculation of Maximum Radiant Section Tube Skin Temperature</b> . . . . . <b>B-1</b>
<b>Annex C</b>	<b>(normative) Thermal-stress Limitations (Elastic Range)</b> . . . . . <b>C-1</b>
<b>Annex D</b>	<b>(informative) Calculation Sheets</b> . . . . . <b>D-1</b>
<b>Annex E</b>	<b>(normative) Stress Curves and Data Tables (SI Units)</b> . . . . . <b>E-1</b>
<b>Annex F</b>	<b>(normative) Stress Curves and Data Tables (USC Units)</b> . . . . . <b>F-1</b>
<b>Annex G</b>	<b>(informative) Derivation of Corrosion Fraction and Temperature Fraction</b> . . . . . <b>G-1</b>
<b>Annex H</b>	<b>(informative) Data Sources</b> . . . . . <b>H-1</b>
<b>Bibliography</b>	. . . . . <b>Bib-1</b>

# Contents

Page

## Figures

1	Corrosion Fraction	7
2	Temperature Fraction	11
3	Return Bend and Elbow Geometry	14
4	Sample Calculation for Elastic Design	21
5	Sample Calculation for Rupture Design (Constant Temperature)	27
6	Sample Calculation for Rupture Design (Changing Temperature)	31
A.1	Tube Metal Temperature Limit Process Logic Map	A-2
A.2a	Retirement Thickness Determination Process Logic Map	A-4
A.2b	Retirement Thickness Determination Process Logic Map (Continued)	A-5
A.2c	Retirement Thickness Determination Process Logic Map Continued	A-6
B.1	Ratio of Maximum Local to Average Heat Flux	B-6
E.1	Stress Curves (USC Units) for ASTM A192 Low-carbon Steels	E-5
E.2	Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A192 Low-carbon Steels	E-6
E.3	Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A192 Low-carbon Steels	E-7
E.4	Stress Curves (USC Units) for ASTM A106 Grade B and ASTM A210 Grade A1 Medium-carbon Steels	E-9
E.5	Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A106 Grade B and ASTM A210 Grade A1 Medium-carbon Steels	E-10
E.6	Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A106 Grade B and ASTM A210 Grade A1 Medium-carbon Steels	E-11
E.7	Stress Curves (USC Units) for ASTM A209 T1 and ASTM A335 P1 Carbon-1/2Mo Steels	E-13
E.8	Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A209 T1 and ASTM A335 P1 Carbon-1/2Mo Steels	E-14
E.9	Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A209 T1 and ASTM A335 P1 Carbon-1/2Mo Steels	E-15
E.10	Stress Curves (USC Units) for ASTM A213 T11 and ASTM A335 P11 1-1/4Cr-1/2Mo Steels	E-17
E.11	Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213 T11 and ASTM A335 P11 1-1/4Cr-1/2Mo Steels	E-18
E.12	Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A213 T11 and ASTM A335 P11 1-1/4Cr-1/2Mo Steels	E-19
E.13	Stress Curves (USC Units) for ASTM A213 T22 and ASTM A335 P22 2-1/4Cr-1Mo Steels	E-21
E.14	Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213 T22 and ASTM A335 P22 2-1/4Cr-1Mo Steels	E-22
E.15	Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A213 T22 and ASTM A335 P22 2-1/4Cr-1Mo Steels	E-23
E.16	Stress Curves (USC Units) for ASTM A213 T21 and ASTM A335 P21 3Cr-1Mo Steels	E-25
E.17	Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213 T21 and ASTM A335 P21 3Cr-1Mo Steels	E-26
E.18	Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A213 T21 and ASTM A335 P21 3Cr-1Mo Steels	E-27
E.19	Stress Curves (USC Units) for ASTM A213 T5 and ASTM A335 P5 5Cr-1/2Mo Steels	E-29
E.20	Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213 T5 and ASTM A335 P5 5Cr-1/2Mo Steels	E-30
E.21	Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A213 T5 and ASTM A335 P5 5Cr-1/2Mo Steels	E-31

## Contents

	Page
E.22 Stress Curves (USC Units) for ASTM A213 T5b and ASTM A335 P5b 5Cr-1/2Mo-Si Steels . . . . .	E-33
E.23 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213 T5b and ASTM A335 P5b 5Cr-1/2Mo-Si Steels . . . . .	E-34
E.24 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A213 T5b and ASTM A335 P5b 5Cr-1/2Mo-Si Steels . . . . .	E-35
E.25 Stress Curves (USC Units) for ASTM A213 T9 and ASTM A335 P9 9Cr-1Mo Steels . . . . .	E-37
E.26 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213 T9 and ASTM A335 P9 9Cr-1Mo Steels . . . . .	E-38
E.27 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A213 T9 and ASTM A335 P9 9Cr-1Mo Steels . . . . .	E-39
E.28 Stress Curves (USC Units) for ASTM A213 T91 and ASTM A335 P91 9Cr-1Mo-V Steels . . . . .	E-41
E.29 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213 T91 and ASTM A335 P91 9Cr-1Mo-V Steels . . . . .	E-42
E.30 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A213 T91 and ASTM A335 P91 9Cr-1Mo-V Steels . . . . .	E-43
E.31 Stress Curves (USC Units) for ASTM A213, ASTM A312, and ASTM 376 TP 304 and 304H (18Cr-8Ni) Stainless Steels . . . . .	E-45
E.32 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213, ASTM A312, and ASTM 376 TP 304 and 304H (18Cr-8Ni) Stainless Steels . . . . .	E-46
E.33 Larson-Miller Parameter vs. Stress Curve (USC Units) for A213, ASTM A312, and ASTM 376 TP 304 and 304H (18Cr-8Ni) Stainless Steels . . . . .	E-47
E.34 Stress Curves (USC Units) for ASTM A213, ASTM A312, and ASTM 376 TP 304L (18Cr-8Ni) Stainless Steels . . . . .	E-49
E.35 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213, ASTM A312, and ASTM 376 TP 304L (18Cr-8Ni) Stainless Steels . . . . .	E-50
E.36 Larson-Miller Parameter vs. Stress Curve (USC Units) for A213, ASTM A312, and ASTM 376 TP 304L (18Cr-8Ni) Stainless Steels . . . . .	E-51
E.37 Stress Curves (USC Units) for ASTM A213, ASTM A312, and ASTM 376 TP 316 and 316H (16Cr-12Ni-2Mo) Stainless Steels . . . . .	E-53
E.38 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213, ASTM A312, and ASTM 376 TP 316 and 316H (16Cr-12Ni-2Mo) Stainless Steels . . . . .	E-54
E.39 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A213, ASTM A312, and ASTM 376 TP 316 and 316H (16Cr-12Ni-2Mo) Stainless Steels . . . . .	E-55
E.40 Stress Curves (USC Units) for ASTM A213, ASTM A312, ASTM 376 TP 316L (16Cr-12Ni-2Mo) Stainless Steels and ASTM A213, A312 TP 317L Stainless Steels . . . . .	E-57
E.41 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213, ASTM A312, ASTM 376 TP 316L (16Cr-12Ni-2Mo) Stainless Steels and ASTM A213, A312 TP 317L Stainless Steels . . . . .	E-58
E.42 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A213, ASTM A312, ASTM 376 TP 316L (16Cr-12Ni-2Mo) Stainless Steels and ASTM A213, A312 TP 317L Stainless Steels . . . . .	E-59
E.43 Stress Curves (USC Units) for ASTM A213, ASTM A312, and ASTM 376 TP 321 (18Cr-10Ni-Ti) Stainless Steels . . . . .	E-61
E.44 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213, ASTM A312, and ASTM 376 TP 321 (18Cr-10Ni-Ti) Stainless Steels . . . . .	E-62
E.45 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A213, ASTM A312, and ASTM 376 TP 321 (18Cr-10Ni-Ti) Stainless Steels . . . . .	E-63
E.46 Stress Curves (USC Units) for ASTM A213, ASTM A312, and ASTM 376 TP 321H (18Cr-10Ni-Ti) Stainless Steels . . . . .	E-65

## Contents

	Page
E.47 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213, ASTM A312, and ASTM 376 TP 321H (18Cr-10Ni-Ti) Stainless Steels . . . . .	E-66
E.48 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A213, ASTM A312, and ASTM 376 TP 321H (18Cr-10Ni-Ti) Stainless Steels . . . . .	E-67
E.49 Stress Curves (USC Units) for ASTM A213, ASTM A312, and ASTM 376 TP 347 (18Cr-10Ni-Nb) Stainless Steels . . . . .	E-69
E.50 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213, ASTM A312, and ASTM 376 TP 347 (18Cr-10Ni-Nb) Stainless Steels . . . . .	E-70
E.51 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A213, ASTM A312, and ASTM 376 TP 347 (18Cr-10Ni-Nb) Stainless Steels . . . . .	E-71
E.52 Stress Curves (USC Units) for ASTM A213, ASTM A312, and ASTM 376 TP 347H (18Cr-10Ni-Nb) Stainless Steels . . . . .	E-73
E.53 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213, ASTM A312, and ASTM 376 TP 347H (18Cr-10Ni-Nb) Stainless Steels . . . . .	E-74
E.54 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A213, ASTM A312, and ASTM 376 TP 347H (18Cr-10Ni-Nb) Stainless Steels . . . . .	E-75
E.55 Stress Curves (USC Units) for ASTM B407 UNS N08800 Alloy 800 Steels . . . . .	E-77
E.56 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM B407 UNS N08800 Alloy 800 Steels . . . . .	E-78
E.57 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM B407 UNS N08800 Alloy 800 Steels . . . . .	E-79
E.58 Stress Curves (USC Units) for ASTM B407 UNS N08810 Alloy 800H Steels . . . . .	E-81
E.59 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM B407 UNS N08810 Alloy 800H Steels . . . . .	E-82
E.60 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM B407 UNS N08810 Alloy 800H Steels . . . . .	E-83
E.61 Stress Curves (USC Units) for ASTM B407 UNS N08811 Alloy 800HT Steels . . . . .	E-85
E.62 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM B407 UNS N08811 Alloy 800HT Steels . . . . .	E-86
E.63 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM B407 UNS N08811 Alloy 800HT Steels . . . . .	E-87
E.64 Stress Curves (USC Units) for ASTM A608 Grade HK-40 Steels . . . . .	E-89
E.65 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A608 Grade HK-40 Steels . . . . .	E-90
E.66 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A608 Grade HK-40 Steels . . . . .	E-91
F.1 Stress Curves (USC Units) for ASTM A192 Low-carbon Steels . . . . .	F-5
F.2 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A192 Low-carbon Steels . . . . .	F-6
F.3 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A192 Low-carbon Steels . . . . .	F-7
F.4 Stress Curves (USC Units) for ASTM A106 Grade B and ASTM A210 Grade A1 Medium-carbon Steels . . . . .	F-9
F.5 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A106 Grade B and ASTM A210 Grade A1 Medium-carbon Steels . . . . .	F-10
F.6 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A106 Grade B and ASTM A210 Grade A1 Medium-carbon Steels . . . . .	F-11
F.7 Stress Curves (USC Units) for ASTM A209 T1 and ASTM A335 P1 Carbon-1/2Mo Steels . . . . .	F-13
F.8 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A209 T1 and ASTM A335 P1 Carbon-1/2Mo Steels . . . . .	F-14

## Contents

	Page
F.9 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A209 T1 and ASTM A335 P1 Carbon-1/2Mo Steels . . . . .	F-15
F.10 Stress Curves (USC Units) for ASTM A213 T11 and ASTM A335 P11 1-1/4Cr-1/2Mo Steels. . . . .	F-17
F.11 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213 T11 and ASTM A335 P11 1-1/4Cr-1/2Mo Steels . . . . .	F-18
F.12 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A213 T11 and ASTM A335 P11 1-1/4Cr-1/2Mo Steels . . . . .	F-19
F.13 Stress Curves (USC Units) for ASTM A213 T22 and ASTM A335 P22 2-1/4Cr-1Mo Steels . . . . .	F-21
F.14 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213 T22 and ASTM A335 P22 2-1/4Cr-1Mo Steels. . . . .	F-22
F.15 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A213 T22 and ASTM A335 P22 2-1/4Cr-1Mo Steels. . . . .	F-23
F.16 Stress Curves (USC Units) for ASTM A213 T21 and ASTM A335 P21 3Cr-1Mo Steels . . . . .	F-25
F.17 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213 T21 and ASTM A335 P21 3Cr-1Mo Steels . . . . .	F-26
F.18 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A213 T21 and ASTM A335 P21 3Cr-1Mo Steels . . . . .	F-27
F.19 Stress Curves (USC Units) for ASTM A213 T5 and ASTM A335 P5 5Cr-1/2Mo Steels . . . . .	F-29
F.20 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213 T5 and ASTM A335 P5 5Cr-1/2Mo Steels . . . . .	F-30
F.21 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A213 T5 and ASTM A335 P5 5Cr-1/2Mo Steels . . . . .	F-31
F.22 Stress Curves (USC Units) for ASTM A213 T5b and ASTM A335 P5b 5Cr-1/2Mo-Si Steels . . . . .	F-33
F.23 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213 T5b and ASTM A335 P5b 5Cr-1/2Mo-Si Steels . . . . .	F-34
F.24 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A213 T5b and ASTM A335 P5b 5Cr-1/2Mo-Si Steels . . . . .	F-35
F.25 Stress Curves (USC Units) for ASTM A213 T9 and ASTM A335 P9 9Cr-1Mo Steels . . . . .	F-37
F.26 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213 T9 and ASTM A335 P9 9Cr-1Mo Steels . . . . .	F-38
F.27 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A213 T9 and ASTM A335 P9 9Cr-1Mo Steels . . . . .	F-39
F.28 Stress Curves (USC Units) for ASTM A213 T91 and ASTM A335 P91 9Cr-1Mo-V Steels . . . . .	F-41
F.29 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213 T91 and ASTM A335 P91 9Cr-1Mo-V Steels . . . . .	F-42
F.30 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A213 T91 and ASTM A335 P91 9Cr-1Mo-V Steels . . . . .	F-43
F.31 Stress Curves (USC Units) for ASTM A213, ASTM A271, ASTM A312, and ASTM 376 TP 304 and 304H (18Cr-8Ni) Stainless Steels . . . . .	F-45
F.32 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213, ASTM A271, ASTM A312, and ASTM 376 TP 304 and 304H (18Cr-8Ni) Stainless Steels . . . . .	F-46
F.33 Larson-Miller Parameter vs. Stress Curve (USC Units) for A213, ASTM A271, ASTM A312, and ASTM 376 TP 304 and 304H (18Cr-8Ni) Stainless Steels. . . . .	F-47
F.34 Stress Curves (USC Units) for ASTM A213, ASTM A271, ASTM A312, and ASTM 376 TP 304L (18Cr-8Ni) Stainless Steels . . . . .	F-49
F.35 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213, ASTM A271, ASTM A312, and ASTM 376 TP 304L (18Cr-8Ni) Stainless Steels . . . . .	F-50

## Contents

	Page
F.36 Larson-Miller Parameter vs. Stress Curve (USC Units) for A213, ASTM A271, ASTM A312, and ASTM 376 TP 304L (18Cr-8Ni) Stainless Steels . . . . .	F-51
F.37 Stress Curves (USC Units) for ASTM A213, ASTM A271, ASTM A312, and ASTM 376 TP 316 and 316H (16Cr-12Ni-2Mo) Stainless Steels . . . . .	F-53
F.38 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213, ASTM A271, ASTM A312, and ASTM 376 TP 316 and 316H (16Cr-12Ni-2Mo) Stainless Steels . . . . .	F-54
F.39 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A213, ASTM A271, ASTM A312, and ASTM 376 TP 316 and 316H (16Cr-12Ni-2Mo) Stainless Steels . . . . .	F-55
F.40 Stress Curves (USC Units) for ASTM A213, ASTM A271, ASTM A312, ASTM 376 TP 316L (16Cr-12Ni-2Mo) Stainless Steels and ASTM A213, A312 TP 317L Stainless Steels . . . . .	F-57
F.41 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213, ASTM A271, ASTM A312, ASTM 376 TP 316L (16Cr-12Ni-2Mo) Stainless Steels and ASTM A213, A312 TP 317L Stainless Steels . . . . .	F-58
F.42 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A213, ASTM A271, ASTM A312, ASTM 376 TP 316L (16Cr-12Ni-2Mo) Stainless Steels and ASTM A213, A312 TP 317L Stainless Steels . . . . .	F-59
F.43 Stress Curves (USC Units) for ASTM A213, ASTM A271, ASTM A312, and ASTM 376 TP 321 (18Cr-10Ni-Ti) Stainless Steels . . . . .	F-61
F.44 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213, ASTM A271, ASTM A312, and ASTM 376 TP 321 (18Cr-10Ni-Ti) Stainless Steels . . . . .	F-62
F.45 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A213, ASTM A271, ASTM A312, and ASTM 376 TP 321 (18Cr-10Ni-Ti) Stainless Steels . . . . .	F-63
F.46 Stress Curves (USC Units) for ASTM A213, ASTM A271, ASTM A312, and ASTM 376 TP 321H (18Cr-10Ni-Ti) Stainless Steels . . . . .	F-65
F.47 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213, ASTM A271, ASTM A312, and ASTM 376 TP 321H (18Cr-10Ni-Ti) Stainless Steels . . . . .	F-66
F.48 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A213, ASTM A271, ASTM A312, and ASTM 376 TP 321H (18Cr-10Ni-Ti) Stainless Steels . . . . .	F-67
F.49 Stress Curves (USC Units) for ASTM A213, ASTM A271, ASTM A312, and ASTM 376 TP 347 (18Cr-10Ni-Nb) Stainless Steels . . . . .	F-69
F.50 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213, ASTM A271, ASTM A312, and ASTM 376 TP 347 (18Cr-10Ni-Nb) Stainless Steels . . . . .	F-70
F.51 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A213, ASTM A271, ASTM A312, and ASTM 376 TP 347 (18Cr-10Ni-Nb) Stainless Steels . . . . .	F-71
F.52 Stress Curves (USC Units) for ASTM A213, ASTM A271, ASTM A312, and ASTM 376 TP 347H (18Cr-10Ni-Nb) Stainless Steels . . . . .	F-73
F.53 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A213, ASTM A271, ASTM A312, and ASTM 376 TP 347H (18Cr-10Ni-Nb) Stainless Steels . . . . .	F-74
F.54 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A213, ASTM A271, ASTM A312, and ASTM 376 TP 347H (18Cr-10Ni-Nb) Stainless Steels . . . . .	F-75
F.55 Stress Curves (USC Units) for ASTM B407 UNS N08800 Alloy 800 Steels . . . . .	F-77
F.56 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM B407 UNS N08800 Alloy 800 Steels . . . . .	F-78
F.57 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM B407 UNS N08800 Alloy 800 Steels . . . . .	F-79
F.58 Stress Curves (USC Units) for ASTM B407 UNS N08810 Alloy 800H Steels . . . . .	F-81

## Contents

	Page
F.59 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM B407 UNS N08810 Alloy 800H Steels.....	F-82
F.60 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM B407 UNS N08810 Alloy 800H Steels.....	F-83
F.61 Stress Curves (USC Units) for ASTM B407 UNS N08811 Alloy 800HT Steels .....	F-85
F.62 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM B407 UNS N08811 Alloy 800HT Steels .....	F-86
F.63 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM B407 UNS N08811 Alloy 800HT Steels .....	F-87
F.64 Stress Curves (USC Units) for ASTM A608 Grade HK-40 Steels .....	F-89
F.65 Rupture Exponent vs. Temperature Curve (USC Units) for ASTM A608 Grade HK-40 Steels .....	F-90
F.66 Larson-Miller Parameter vs. Stress Curve (USC Units) for ASTM A608 Grade HK-40 Steels.....	F-91

### Tables

1 Minimum Allowable Thickness of New Tubes .....	10
2 Summary of Working Equations .....	12
3 Material Constant for Temperature Fraction .....	13
4 Larson-Miller Constants .....	18
5 Limiting Design Metal Temperature for Heater-tube Alloys .....	19
6 Index to Allowable Stress Curves .....	20
A.1 Retirement Wall Thickness.....	A-7
A.2 Approximation of the Operating History.....	A-8
A.3 Life Fractions for Each Period .....	A-10
A.4 Future Life Fractions, Minimum Rupture Strength .....	A-11
A.5 Future Life Fractions, Average Rupture Strength .....	A-12
E.1 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A192 Low-carbon Steels.....	E-8
E.2 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A106 Grade B and ASTM A210 Grade A1 Medium-carbon Steels.....	E-12
E.3 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A209 T1 and ASTM A335 P1 Carbon-1/2Mo Steels.....	E-16
E.4 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A213 T11 and ASTM A335 P11 1-1/4Cr-1/2Mo Steels .....	E-20
E.5 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A213 T22 and ASTM A335 P22 2-1/4Cr-1Mo Steels .....	E-24
E.6 Elastic and Rupture Allowable Stresses (USC Units) for ASTM A213 T21 and ASTM A335 P21 3Cr-1Mo Steels .....	E-28
E.7 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A213 T5 and ASTM A335 P5 5Cr-1/2Mo Steels .....	E-32
E.8 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A213 T5b and ASTM A335 P5b 5Cr-1/2Mo-Si Steels.....	E-36
E.9 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A213 T9 and ASTM A335 P9 9Cr-1Mo Steels.....	E-40
E.10 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) ASTM A213 T91 and ASTM A335 P91 9Cr-1Mo-V Steels.....	E-44



## Contents

	Page
E.11 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for A213, ASTM A312, and ASTM 376 TP 304 and 304H (18Cr-8Ni) Stainless Steels . . . . .	E-48
E.12 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for A213, ASTM A312, and ASTM 376 TP 304L (18Cr-8Ni) Stainless Steels . . . . .	E-52
E.13 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A213, ASTM A312, and ASTM 376 TP 316 and 316H (16Cr-12Ni-2Mo) Stainless Steels . . . . .	E-56
E.14 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A213, ASTM A312, ASTM 376 TP 316L (16Cr-12Ni-2Mo) Stainless Steels and ASTM A213, A312 TP 317L Stainless Steels. . . . .	E-60
E.15 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A213, ASTM A312, and ASTM 376 TP 321 (18Cr-10Ni-Ti) Stainless Steels . . . . .	E-64
E.16 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A213, ASTM A312, and ASTM 376 TP 321H (18Cr-10Ni-Ti) Stainless Steels. . . . .	E-68
E.17 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A213, ASTM A312, and ASTM 376 TP 347 (18Cr-10Ni-Nb) Stainless Steels . . . . .	E-72
E.18 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A213, ASTM A312, and ASTM 376 TP 347H (18Cr-10Ni-Nb) Stainless Steels . . . . .	E-76
E.19 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM B407 UNS N08800 Alloy 800 Steels. . . . .	E-80
E.20 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM B407 UNS N08810 Alloy 800H Steels . . . . .	E-84
E.21 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM B407 UNS N08811 Alloy 800HT Steels . . . . .	E-88
E.22 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A608 Grade HK-40 Steels . . . . .	E-92
F.1 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A192 Low-carbon Steels. . . . .	F-8
F.2 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A106 Grade B and ASTM A210 Grade A1 Medium-carbon Steels. . . . .	F-12
F.3 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A209 T1 and ASTM A335 P1 Carbon-1/2Mo Steels. . . . .	F-16
F.4 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A213 T11 and ASTM A335 P11 1-1/4Cr-1/2Mo Steels . . . . .	F-20
F.5 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A213 T22 and ASTM A335 P22 2-1/4Cr-1Mo Steels . . . . .	F-24
F.6 Elastic and Rupture Allowable Stresses (USC Units) for ASTM A213 T21 and ASTM A335 P21 3Cr-1Mo Steels. . . . .	F-28
F.7 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A213 T5 and ASTM A335 P5 5Cr-1/2Mo Steels . . . . .	F-32
F.8 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A213 T5b and ASTM A335 P5b 5Cr-1/2Mo-Si Steels. . . . .	F-36
F.9 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A213 T9 and ASTM A335 P9 9Cr-1Mo Steels. . . . .	F-40
F.10 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) ASTM A213 T91 and ASTM A335 P91 9Cr-1Mo-V Steels. . . . .	F-44
F.11 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for A213, ASTM A271, ASTM A312, and ASTM 376 TP 304 and 304H (18Cr-8Ni) Stainless Steels. . . . .	F-48

## Contents

Page

<b>F.12 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for A213, ASTM A271, ASTM A312, and ASTM 376 TP 304L (18Cr-8Ni) Stainless Steels</b> .....	<b>F-52</b>
<b>F.13 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A213, ASTM A271, ASTM A312, and ASTM 376 TP 316 and 316H (16Cr-12Ni-2Mo) Stainless Steels</b> .....	<b>F-56</b>
<b>F.14 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A213, ASTM A271, ASTM A312, ASTM 376 TP 316L (16Cr-12Ni-2Mo) Stainless Steels and ASTM A213, A312 TP 317L Stainless Steels</b> .....	<b>F-60</b>
<b>F.15 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A213, ASTM A271, ASTM A312, and ASTM 376 TP 321 (18Cr-10Ni-Ti) Stainless Steels</b> .....	<b>F-64</b>
<b>F.16 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A213, ASTM A271, ASTM A312, and ASTM 376 TP 321H (18Cr-10Ni-Ti) Stainless Steels</b> .....	<b>F-68</b>
<b>F.17 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A213, ASTM A271, ASTM A312, and ASTM 376 TP 347 (18Cr-10Ni-Nb) Stainless Steels</b> .....	<b>F-72</b>
<b>F.18 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A213, ASTM A271, ASTM A312, and ASTM 376 TP 347H (18Cr-10Ni-Nb) Stainless Steels</b> .....	<b>F-76</b>
<b>F.19 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM B407 UNS N08800 Alloy 800 Steels</b> .....	<b>F-80</b>
<b>F.20 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM B407 UNS N08810 Alloy 800H Steels</b> .....	<b>F-84</b>
<b>F.21 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM B407 UNS N08811 Alloy 800HT Steels</b> .....	<b>F-88</b>
<b>F.22 Elastic, Rupture Allowable Stresses and Rupture Exponent (USC Units) for ASTM A608 Grade HK-40 Steels</b> .....	<b>F-92</b>