

Table M.1a—Yield Strength Reduction Factors (SI)

Temperature (°C)	Minimum Specified Yield Strength (MPa)		
	< 310 MPa	From ≥ 310 to < 380 MPa	≥ 380 MPa
94	0.91	0.88	0.92
150	0.88	0.81	0.87
200	0.85	0.75	0.83
260	0.80	0.70	0.79

NOTE: Linear interpolation shall be applied for intermediate values.

Table M.1b—Yield Strength Reduction Factors (USC)

Temperature (°F)	Minimum Specified Yield Strength (lb/in. ²)		
	< 45,000 lb/in. ²	≥ 45,000 to < 55,000 lb/in. ²	≥ 55,000 lb/in. ²
201	0.91	0.88	0.92
300	0.88	0.81	0.87
400	0.85	0.75	0.83
500	0.80	0.70	0.79

NOTE: Linear interpolation shall be applied for intermediate values.

M.4 Tank Bottoms

M.4.1 Tanks with diameters exceeding 30 m (100 ft) shall have butt-welded annular bottom plates (see 5.1.5.6).

M.4.2 The following simplified procedure is offered as a recommended design practice for elevated-temperature tanks where significant temperature differences between the tank bottom and the lowest shell course are expected. The use of the procedure is not intended to be mandatory. It is recognized that other analytical procedures can be employed as well as that operating conditions may preclude the need for such a procedure.

Shell-to-bottom junctions in elevated-temperature tanks may be evaluated for liquid head and temperature cycles with the formulas, procedures, and exclusions given below. (See Conditions a and b in the note below, which exclude tanks from such analyses.)

NOTE: A cyclic design life evaluation need not be made if all the criteria of either of the following conditions are met.

- The design temperature difference (T) is less than or equal to 220 °C (400 °F), K is less than or equal to 2.0, and C is less than or equal to 0.5.
- A heated liquid head, in feet, greater than or equal to $0.3(D_t)^{0.5}$ is normally maintained in the tank, except for an occasional cool-down (about once a year) to ambient temperatures; T is less than or equal to 260 °C (500 °F); and K is less than or equal to 4.0. (For background information on the development of the stress formulas, design life criteria, and C and B factors, see G.G. Karcher, "Stresses at the Shell-to-Bottom Junction of Elevated-Temperature Tanks.")

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Task Committee on Seismic Evaluation and Design of Petrochemical Facilities,1997 Topics include design and evaluation philosophy seismic hazards such as ground shaking fault rupture and tsunamis analysis and load definition primary structural design criteria and considerations walkdown evaluations of existing facilities design and evaluation of tanks at grade and retrofit design and procedures for seismically deficit structures **Above Ground Storage Tanks** Philip E.

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Table of Contents Api 650 9th Edition

1. Understanding the eBook Api 650 9th Edition
 - The Rise of Digital Reading Api 650 9th Edition
 - Advantages of eBooks Over Traditional Books
2. Identifying Api 650 9th Edition
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Api 650 9th Edition
 - User-Friendly Interface
4. Exploring eBook Recommendations from Api 650 9th Edition
 - Personalized Recommendations
 - Api 650 9th Edition User Reviews and Ratings
 - Api 650 9th Edition and Bestseller Lists
5. Accessing Api 650 9th Edition Free and Paid eBooks
 - Api 650 9th Edition Public Domain eBooks
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 - ePub, PDF, MOBI, and More
 - Api 650 9th Edition Compatibility with Devices
 - Api 650 9th Edition Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Api 650 9th Edition
 - Highlighting and Note-Taking Api 650 9th Edition
 - Interactive Elements Api 650 9th Edition
8. Staying Engaged with Api 650 9th Edition

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Api 650 9th Edition
9. Balancing eBooks and Physical Books Api 650 9th Edition
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Api 650 9th Edition
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Api 650 9th Edition
- Setting Reading Goals Api 650 9th Edition
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Api 650 9th Edition
- Fact-Checking eBook Content of Api 650 9th Edition
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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