

# API 2H Grade 50

## Normalized Carbon-Manganese Structural Steel Plate

### General Product Description

API 2H Grade 50 is an intermediate-strength, normalized, structural steel plate used in the welded construction of offshore structures. API 2H Grade 50 has a minimum yield strength of 50 ksi [345 MPa] and a minimum transverse Charpy V-notch impact toughness of 30 ft-lbf [41 J] at -40°F [-40°C]. SSAB is an API Licensee under the API Monogram Program. This product can be multi-certified to ASTM A533 Grade C, ABS DNVH 36, ASTM A537 Class 1 and MIL-S-22698 Rev C in thicknesses to 2" [50.8 mm].

**Applications:** API 2H Grade 50 is intended primarily for use in offshore structures in critical portions that must exhibit good impact toughness and resistance to plastic fatigue loading and lamellar tearing. The primary use of API 2H Grade 50 is in tubular joints, stiffened plate construction and other intersections where portions of the plates will be subjected to tension in the through-thickness (Z) direction.

**Dimensions:** The following API 2H Grade 50 plate sizes are available:

**Thickness:** 0.375" - 3.00" (9.5 mm - 76.2 mm)

**Width:** 72" - 123" (1,829mm - 3,124 mm)

**Length:** 240" - 600" (6.10m - 15.24 m)

### Mechanical Properties

**Tensile Testing** is performed transverse direction according to API 2H requirements. The minimum values are tabulated below:

Thickness, t in. [mm]	0.2% YS ksi [MPa], min.	UTS ksi [MPa]	Elongation in 2" [50 mm], min. %	Elongation in 8" [200 mm], min. %
≤2.50 [63.5]	50 [345]	70 to 90 [483-620]	21	16
>2.50 [63.5]	47 [324]	70 to 90 [483-620]	21	16

**Charpy V-Notch Impact Testing** is performed using transverse specimens in accordance with ASTM A370. The producer has the option of testing sub-size specimens to any of the combinations of specimen size, energy requirement, and test temperature as shown below:

Specimen Size in.	Specimen Size, mm	Minimum Average Energy ft-lb [J]	Minimum Single Value Energy ft- lb [J]	Test Temperature °F [°C]		
0.394 x 0.394	10 x 10	30 [41]	25 [34]	-40	-40	
0.295 x 0.394	7.5 x 10	30 [41]	25 [34]	-40	-40	
0.197 x 0.394	5 x 10	30 [41]	25 [34]	-40	-40	
0.295 x 0.394	7.5 x 10	23 [31]	19 [26]	-50	-46	
0.197 x 0.394	5 x 10	15 [20]	13 [18]	-80	-62	

### Chemical Composition (wt %, max. unless indicated)

	C	Mn	P	S	Si	Al	Cb	Ti <sup>1</sup>	N <sup>2</sup>	V <sup>2</sup>	CEV ≤2"	CEV >2"
Heat	0.18	1.15- 1.60	0.030	0.010	0.05- 0.40	0.02- 0.06	0.01- 0.04	0.020	0.012		0.43	0.45
Product	0.22			0.015	0.05- 0.45							

1. Minimum value, if any, shall be as agreed upon and stated on the order.

2. Shall not be intentionally added.

# Api 2h Grade 50 Properties

**Tao Wei**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the Tao Wei text.

## Api 2h Grade 50 Properties:

Assessment of Materials in Ageing Offshore Structures John V. Sharp, John Wintle, 2025-04-17 This book provides essential knowledge and techniques required to assess materials for extending the life of ageing offshore structures used for energy production. With over half of these structures currently in a life extension phase, the effects of ageing and degradation are at the forefront of the industry. The book presents the changes in industry practices and key technological advancements that have shaped the field since its inception. It reviews the original properties of the materials employed in offshore structures and provides a deep understanding of their behaviour as they age over time. The relevant degradation processes are investigated for offshore structural materials such as steel welds, bolted joints, concrete grout, reinforcement, pre-tensioning and non-metallic materials including coatings and composites. Materials engineers will be equipped with the necessary tools in this book to evaluate materials in existing ageing structures. The book goes beyond theoretical knowledge, providing practical insights into assessing the performance of materials in ageing structures. With a focus on ensuring the efficient and safe continued use of existing infrastructure, engineers will find useful guidance to inform decision making and facilitate the assessment process. The book brings together a wide range of research findings relevant to the topic and offers an updated summary of material assessment techniques that are largely difficult or even impossible to access publicly. This book is an invaluable resource for practising materials engineers, offshore engineering professionals or materials engineering students.

*Offshore Structures* Mohamed A. El-Reedy, 2012-08-21 With most of the easy gas and oil reserves discovered and prices rebounding, companies are now drilling far offshore in extreme weather condition environments. As deepwater wells are drilled to greater depths, engineers and designers are confronted with new problems such as water depth, weather conditions, ocean currents, equipment reliability and well accessibility. *Offshore Structure Design, Construction and Maintenance* covers all types of offshore structures and platforms employed worldwide. The ultimate reference for selecting, operating and maintaining offshore structures, this book provides a road map for designing structures which will stand up even in the harshest environments. The selection of the proper type of offshore structure is discussed from a technical and economic point of view. The design procedure for the fixed offshore structure will be presented and how to review the design to reach the optimum solution. Nonlinear analysis, Push over analysis will be presented as a new technique to design and assess the existing structure. Pile design and tubular joint with the effect of fatigue loading will be presented also from a theoretical and a practical point of view. With this book in hand, engineers receive the most up to date methods for performing a structural life cycle analysis, implement maintenance plans for topsides and jackets using non-destructive testing. Underwater inspection is discussed for hundreds of platforms in detail. Advanced repair methodology for scour, marine growth and damaged or deteriorating members are discussed. Risk based underwater inspection techniques are covered from a practical point of view. In addition, the book will be supported by an online modeling and simulation program which will allow designers to

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Mechanical Engineering ,1985 Advanced Materials & Processes ,1990-07 **Marine Structural Design**

**Calculations** Mohamed A. El-Reedy, 2014-09-30 The perfect guide for veteran structural engineers or for engineers just entering the field of offshore design and construction Marine Structural Design Calculations offers structural and geotechnical engineers a multitude of worked out marine structural construction and design calculations Each calculation is discussed in a concise easy to understand manner that provides an authoritative guide for selecting the right formula and solving even the most difficult design calculation Calculation methods for all areas of marine structural design and construction are presented and practical solutions are provided Theories principles and practices are summarized The concentration focuses on formula selection and problem solving A quick look up guide Marine Structural Design Calculations includes both fps and SI units and is divided into categories such as Project Management for Marine Structures Marine Structures Loads and Strength Marine Structure Platform Design and Geotechnical Data and Pile Design The calculations are based on industry code and standards like American Society of Civil Engineers and American Society of Mechanical Engineers as well as institutions like the American Petroleum Institute and the US Coast Guard Case studies and worked examples are included throughout the book Calculations are based on industry code and standards such as American Society of Civil Engineers and American Society of Mechanical Engineers Complete chapter on modeling using SACS software and PDMS software Includes over 300 marine structural construction and design calculations Worked out examples and case studies are provided throughout the book Includes a number of checklists design schematics and data tables *Selection of Engineering Materials* Gladius Lewis, 1990 Concise data on the nature properties and relative merits of a wide spectrum of currently available materials including mechanical aspects of design environmental degradation of materials manufacturing processes quality control salvaging and recycling of materials Section 1 offers 30 case studies section 2 presents 58 questions and suggested answers section 3 views a range of engineering materials *Structural Welding Code-- Steel* American Welding Society. Structural Welding Committee, 2004 *Welding Design & Fabrication*, 1984 *Recommended Practice for Planning, Designing, and Constructing Fixed Offshore Platforms* American Petroleum Institute, 1989 **ASM Handbook**, 1990 *Microalloyed HSLA Steels*, 1988 **Specification for Carbon Manganese Steel Plate for Offshore Platform Tubular Joints**, 1990 SPE Reprint Series, 1983 **Specification for Steel Plates, Quenched-and-tempered, for Offshore Structures**, 1990 **Applied Welding Engineering** Ramesh Singh, 2015-10-24 A practical and in depth guide to materials selection welding techniques and procedures Applied Welding Engineering Processes Codes and Standards provides expert advice for complying with international codes as well as working them into day to day design construction and inspection activities New content in this edition covers the standards and codes of the Canadian Welding Society and the DNV standards in addition to updates to existing coverage of the American Welding Society American Society of Mechanical Engineers The Welding Institute UK The book s four part treatment starts with a clear and rigorous exposition of the science of metallurgy including but not limited to Alloys Physical Metallurgy Structure of

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