



## Material - SAE 1010

### Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Sheets and Tubing

Group - Ferrous Mild Steel Alloys

Sub Group - SAE 1010 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Sheets and Tubing

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Sheet and Tubing

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 max.	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.300 - 0.600		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.050 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
Mechanical Properties				
Tensile Strength in Mpa		320 - 653.3		
Yield Strength in Mpa		180 min.		
Elongation in %		20 min.		
Reduction of Area in %		40 - 50		
Hardness in HB		95 - 105		
Impact in Joule		-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10100	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1010	AISI	USA	Tubing
A 1040 1010	ASTM	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
A 108 Grade 1010	ASTM	USA	Bar and Sheet
A 29 1010	ASTM	USA	Bar
A 29 M1010	ASTM	USA	Bar
A 510 1010	ASTM	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)

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# Sae 1010 Material Specification

**John K. Olsen**



## **Sae 1010 Material Specification:**

**Supplement to National Directory of Commodity Specification** United States. National Bureau of Standards,1947  
**Miscellaneous Publication - National Bureau of Standards** United States. National Bureau of Standards,1934  
National Bureau of Standards Miscellaneous Publication ,1945      **National Directory of Commodity Specifications**  
United States. National Bureau of Standards,1947      **NBS Special Publication** ,1945      **The SAE Journal** ,1928 Vols 30  
54 1932 46 issued in 2 separately paged sections General editorial section and a Transactions section Beginning in 1947 the  
Transactions section is continued as SAE quarterly transactions      **Metal Stampings** ,1930      **SAE Bulletin** ,1915  
The Journal of the Society of Automotive Engineers Society of Automotive Engineers,1921      Production Design John K.  
Olsen,1928      **S.A.E. Handbook** ,1930      **AASHTO LRFD Bridge Design Specifications** American Association of State  
Highway and Transportation Officials,1994      **Smithsonian Physical Tables** Smithsonian Institution,1923      **Standards**  
**Engineering** ,1958      Smithsonian Miscellaneous Collections ,1921      Automotive Engineering ,1920      **Metal Progress**  
,1930      Journal of the Society of Automotive Engineers ,1924 Vols 30 54 1932 46 issued in 2 separately paged sections  
General editorial section and a Transactions section Beginning in 1947 the Transactions section is continued as SAE  
quarterly transactions      *Observations of the Total Solar Eclipse of May 29, 1919* Alfred Finley Moore,Casimir de  
Candolle,Charles Greeley Abbot,Henry Helm Clayton,Robert Hutchings Goddard,Smithsonian Institution,Leonard Harris  
Abbot,1921      **American Standard American Drafting Standards Manual** American Standards Association,1959

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## **Table of Contents Sae 1010 Material Specification**

1. Understanding the eBook Sae 1010 Material Specification
  - The Rise of Digital Reading Sae 1010 Material Specification
  - Advantages of eBooks Over Traditional Books
2. Identifying Sae 1010 Material Specification
  - 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 Sae 1010 Material Specification
  - User-Friendly Interface
4. Exploring eBook Recommendations from Sae 1010 Material Specification

- Personalized Recommendations
- Sae 1010 Material Specification User Reviews and Ratings
- Sae 1010 Material Specification and Bestseller Lists
- 5. Accessing Sae 1010 Material Specification Free and Paid eBooks
  - Sae 1010 Material Specification Public Domain eBooks
  - Sae 1010 Material Specification eBook Subscription Services
  - Sae 1010 Material Specification Budget-Friendly Options
- 6. Navigating Sae 1010 Material Specification eBook Formats
  - ePub, PDF, MOBI, and More
  - Sae 1010 Material Specification Compatibility with Devices
  - Sae 1010 Material Specification Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Sae 1010 Material Specification
  - Highlighting and Note-Taking Sae 1010 Material Specification
  - Interactive Elements Sae 1010 Material Specification
- 8. Staying Engaged with Sae 1010 Material Specification
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Sae 1010 Material Specification
- 9. Balancing eBooks and Physical Books Sae 1010 Material Specification
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Sae 1010 Material Specification
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Sae 1010 Material Specification
  - Setting Reading Goals Sae 1010 Material Specification
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sae 1010 Material Specification

- Fact-Checking eBook Content of Sae 1010 Material Specification
  - 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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