

NELSON STUD WELDING

SPECIFICATION: **NBL** Unthreaded Studs

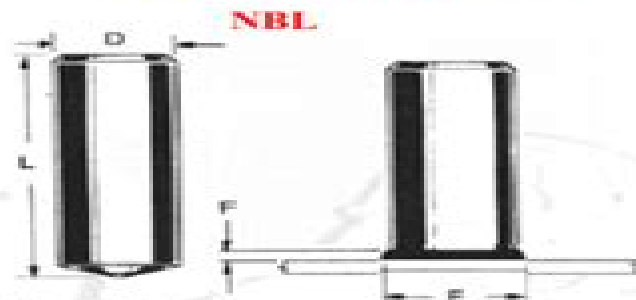
Nelson NBL studs are designed to be welded to heavy base materials and are used for a variety of applications. In the power generation market, they are used to anchor refractory to water walls and to facilitate heat transfer in coal burning furnaces. In forging applications, NBL studs are used as the tong hold on the ends of billets. They are also commonly used as locator pins, axles, pivot points, spacers, and stops.

Studs with diameters up to 1/2", and lengths up to 1-1/4" can be specially designed for use in automatic fed stud welding equipment.

Special secondary operations, such as cross-drilling, grooving, heat treating, and pointing, can expand the application possibilities of Nelson NBL studs.

For similar function studs, see Nelson **NBA** Aluminum Unthreaded studs and **NJL** Reduced Base Unthreaded studs.

✓ Check Standard Stock



When ordering, specify **Type, Diameter, Before Weld Length, Material, Quantity, and Part Number**

Example: NBL 3/8 x 1-1/8"; Stainless Steel; 10,000 pieces; #101064458

Stud Diameter D	Minimum Stud Length L	Burn Off	Weld Flash Size		Flash Clearance	Ferrule	Required Standard Accessories		
			E	F			Grip	Grip	Foot
1/4	0.780	0.125	0.359	0.109	0.437	100101067	501001007	500001007	502001137
5/16	0.780	0.125	0.437	0.109	0.500	100101067	501001008	500001009	502001137
3/8	0.780	0.125	0.500	0.125	0.593	100101099	501001009	500001011	502001137
7/16	0.813	0.125	0.593	0.140	0.696	100101009	501001008	500001012	502001137
1/2	0.813	0.125	0.687	0.156	0.750	100101114	501001011	500001014	501001138
5/8	0.968	0.187	0.875	0.187	0.937	100101187	501001014	500001016	502001002
9/16	1.000	0.187	0.921	0.250	1.125	100101040	501001014	500001245	502001002
3/4	1.250	0.187	1.063	0.250	1.125	100101152	501001014	500001018	502001002
7/8	1.500	0.187	1.125	0.312	1.250	100101140	501001015	500001019	502001003
1	1.647	0.250	1.375	0.375	1.437	100101045	501001016	500001085	502001003

MATERIALS: Studs are available in Low Carbon Mild Steel and 18-8 Stainless Steel. Other materials are available by special order. For specific grade information and physical and chemical properties, conforming standards, and information on stud plating and heat treating, please see **General Material Specifications**.

FLUX: All Nelson no thread studs have a solid flux load.

Visit our website www.NelsonStudWelding.com for a list of our standard stock products.

Nelson Stud Welding Manual 6000

Lingsheng Yao



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Table of Contents Nelson Stud Welding Manual 6000

1. Understanding the eBook Nelson Stud Welding Manual 6000
 - The Rise of Digital Reading Nelson Stud Welding Manual 6000
 - Advantages of eBooks Over Traditional Books
2. Identifying Nelson Stud Welding Manual 6000
 - 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 Nelson Stud Welding Manual 6000
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nelson Stud Welding Manual 6000
 - Personalized Recommendations
 - Nelson Stud Welding Manual 6000 User Reviews and Ratings
 - Nelson Stud Welding Manual 6000 and Bestseller Lists
5. Accessing Nelson Stud Welding Manual 6000 Free and Paid eBooks

- Nelson Stud Welding Manual 6000 Public Domain eBooks
- Nelson Stud Welding Manual 6000 eBook Subscription Services
- Nelson Stud Welding Manual 6000 Budget-Friendly Options
- 6. Navigating Nelson Stud Welding Manual 6000 eBook Formats
 - ePub, PDF, MOBI, and More
 - Nelson Stud Welding Manual 6000 Compatibility with Devices
 - Nelson Stud Welding Manual 6000 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nelson Stud Welding Manual 6000
 - Highlighting and Note-Taking Nelson Stud Welding Manual 6000
 - Interactive Elements Nelson Stud Welding Manual 6000
- 8. Staying Engaged with Nelson Stud Welding Manual 6000
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nelson Stud Welding Manual 6000
- 9. Balancing eBooks and Physical Books Nelson Stud Welding Manual 6000
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nelson Stud Welding Manual 6000
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Nelson Stud Welding Manual 6000
 - Setting Reading Goals Nelson Stud Welding Manual 6000
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nelson Stud Welding Manual 6000
 - Fact-Checking eBook Content of Nelson Stud Welding Manual 6000
 - 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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