

NELSON STUD WELDING

SPECIFICATION: **NBL** Unthreaded Studs

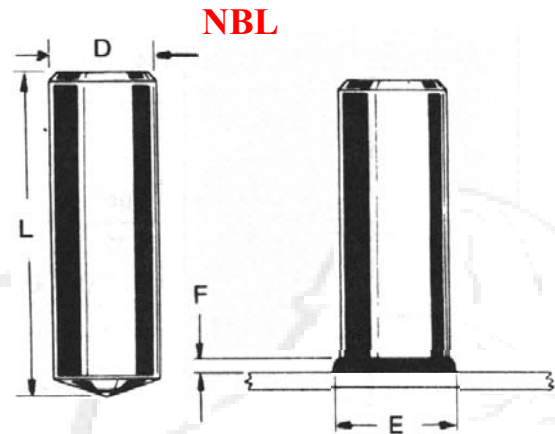


Nelson NBL studs are designed to be welded to heavy base materials and are used for a variety of applications. In the power generation market, they are used to anchor refractory to water walls and to facilitate heat transfer in coal burning furnaces. In forging applications, NBL studs are used as the 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**.



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	100101007	501001006	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	0.656	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
0.680	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.