

NELSON STUD WELDING

*SPECIFICATION: Metric **NBL** No Thread Studs*

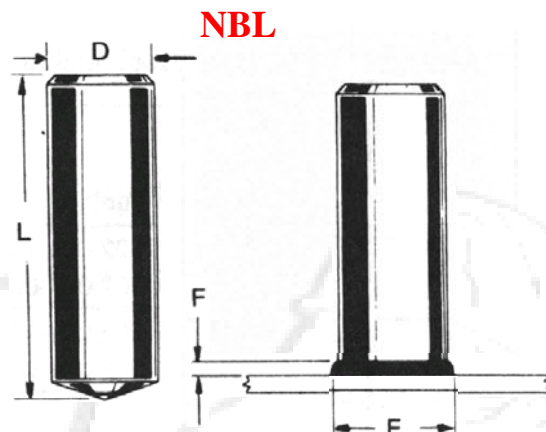


Nelson metric NBL studs are designed to be welded to heavy base materials and are used for a variety of applications. In the power generation market, they are used to anchor refractory to water walls and to facilitate heat transfer in coal burning furnaces. In forging applications, NBL studs are used 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 24mm, and lengths 30mm 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 imperial studs, see Nelson **NBA Aluminum No Thread studs** and **NJL Reduced Base Unthreaded studs**.



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

Example: NBL 10 x 20mm; Stainless Steel; 10,000 pieces; #101065913

Stud Diameter D	Minimum Stud Length L	Burn Off	Weld Flash Size		Flash Clearance	Ferrule	Required Standard Accessories		
			F	G			Grip	Grip	Foot
6	18	2	9.10	3	11.10	100101067	501001007	500001267	502001137
8	23	3	11	4	12.50	100101007	501001006	500001009	502001137
10	23	3	13	4	14.50	100101037	501001008	500001269	502001137
12	24	3	16	4.5	17.50	100101027	501001009	500001206	502001137
16	29	4	21	6	22.50	100101187	501001014	500001016	501001138
19	30	5	27	7	28.50	100101152	501001014	500001018	502001002
20	30	5	26	8	27.50	100101195	501001014	500001272	502001002
22	35	6	28	9	30.50	100101140	501001015	500001019	502001003
24	36	6	35	10	36.50	100101197	501001016	500001274	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 unthreaded studs have a solid flux load.

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