

NELSON STUD WELDING

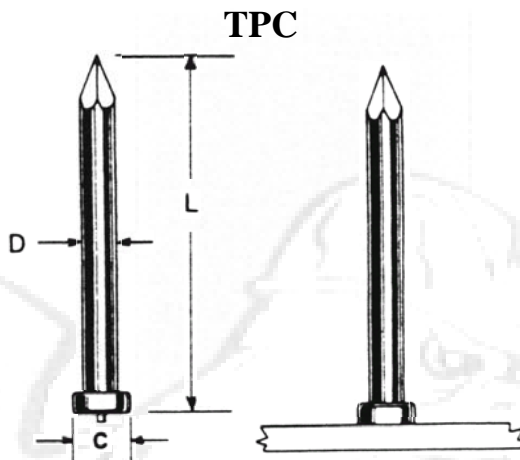
SPECIFICATION: TPC, TPS, TPA Single Pointed Insulation Pin

These studs are primarily designed as welded fasteners to secure blanket and board insulation to metal heating and air-conditioning duct, ovens, tanks, boilers, and other hot or cold equipment. The insulation may be fiberglass, rock wool, or other insulation

When used in combination with the Speed Clips, shown below, the resultant system is a simple, inexpensive, and efficient method of securing insulation to a metal backing.

The “TP” series of insulation pins have a weld tip designed for the Capacitor Discharge welding process, but they may also be welded with the Short Cycle Drawn Arc weld process.

For similar function studs, see Nelson [P2P Double Pointed Insulation Pins](#), [N3P Navy Type Annular Ring studs](#), and [CHP Cupped Head Insulation pins](#).



When ordering, specify **Type, Description, Material, Quantity, and Part Number**

Example: TPC 10 ga. x 1-1/2”; Mild Steel; 10,000 pieces; #101252150

Stud Description	Pin Diameter D	Minimum Length L	C	A	Required Standard Accessories		
					Spark Shield	Chuck	Foot
12 ga.	0.105	0.750	0.175	0.035	511001002	500001169	502001138
10 ga.	0.134	0.750	0.215	0.050	511001002	500001002	502001138

MATERIALS: Studs are available in Low Carbon Mild Steel (TPC), 18-8 Stainless Steel (TPS), and 1100 Aluminum (TPA). 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](#).

Recommended Accessories:

SPECIFICATION: Speed Clips

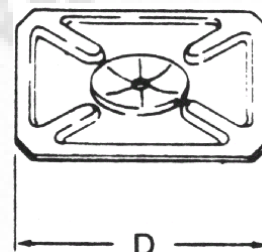
Speed clips, when used in combination with TPC studs, secure all types of material that can be readily impaled: fiberglass, foam, felts, and corks, as well as refractory linings and insulation board.

When ordering, specify **Type, Description, Material, and Quantity**

Example: Speed Clip 10 ga. x 1-1/2”; Mild Steel; 10,000 pieces; #101301084

Clip Description	Pin Diameter D	Pin Size C	Clip Thickness A
Round	1-1/2	12, 10ga.	0.021
Round	2	12, 10ga.	0.021
Square	1-1/2	12, 10ga.	0.021
Square	2-1/2	12, 10ga.	0.021
Rectangular	1 x 1-1/4	12, 10ga.	0.021

Rectangular/Square Impression Clip



Round Impression Clip



MATERIALS: Speed Clips are available in zinc plated 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](#).

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