

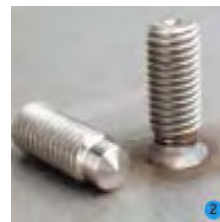
## Arc Stud Welding

Arc stud welding is a process that joins studs using heating and fusing of the metal base and part of the tip of the stud, followed of immediate pressure, for better union and solidification. The running time is relatively short and the HAZ (Heat-affected zone) is very narrow.

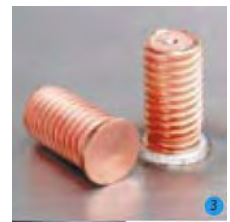
1)Welding of studs with ceramic ferrule



2)Welding of studs with gas protection



3)Welding of studs with short cycle



a) The stud contacts the work part.



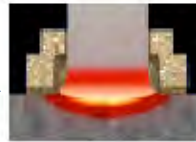
b) The stud is raised, establishing an electric arc.



c) The arc generates heat that melts off the stud and the part.



d) Pressure is applied to the threshold.



e) A weld is done in all the surface.



### Applications of Weld of studs:

**Construction of mixing structures steel-hardened:** bridges, high constructions, industrial ships, multi-floor parking lots, pre-manufactured parts, infrastructures.

**Constructions in steel:** setting of building facades, assembly of supports, setting of rails.

**Construction of equipment and containers:** heating boilers, chemical equipment, advertising panels, electric closets, domestic equipment.

**Refractory Industry:** setting of refractory mass, ceramic coatings and fiber meshes in industrial ovens, vapor boilers, incinerators of residues.

**Automobile Industry:** setting of cables, coverings, screws and nuts.

**Naval construction:** structures, isolation, setting of cables and elements.