

Welding of Aluminum and Aluminum Alloys

Aluminum and aluminum alloys can be welded by means of fusion welding method. When comparing welding of aluminum parts with welding of steel parts, some features specific to the material should be taken into consideration while welding aluminum parts.

Since aluminum materials have higher thermal conductivity comparing to structural steels, their welding penetration is lower and their degasification occurs later than structural steels.

As a result, insufficient fusion and pores may develop in welding seam. By applying pre-annealing to the work part and annealing thicker cross-sectioned materials during welding, this kinds of welding error may be prevented.