

Pickling and also passivation

1. Intro

Brass Fitting

Austenitic stainless steel has great corrosion resistance as well as good cold and warm functioning performance, so it is commonly made use of to produce numerous sort of parts with anti-corrosion demands. The passive movie externally of austenitic stainless-steel has a great influence on its deterioration resistance. The passive movie of austenitic stainless steel is mainly obtained by pickling and passivation.

2. Formula

Pickling service: 20% nitric acid + 5% hydrofluoric acid + 75% water

Passivation service: 5% nitric acid + 2% potassium dichromate + 93% water

Marinading passivation remedy (2 in one): 20% nitric acid + 10% hydrofluoric acid + 70% water

3. Operation

a. Pretreatment:

Eliminate the oxide finishing by Shot blasting.

Clean welding areas on both sides, eliminate oil and other spots on the surface with fuel or cleaner.

Heavy oil to be cleaned with 3-5% alkali cleaning remedy. After washing, cleanse the surface area with clean water.

b. Pickling as well as passivation.

Marinading as well as passivation (two in one) solution can complete pickling as well as passivation at one time. The temperature as well as time shall be purely controlled. If the temperature level is reduced, the time will certainly be long, and if the temperature level is high, the time will be short. Prevent matrix corrosion brought on by failure to accomplish pickling result or too much pickling. After therapy, it needs to be completely cleaned with clean water to make the surface free of residual liquid, so as to assist in subsequent passivation treatment.