

Technical Bulletin

Bulletin # 1006

Non-Corrosive (430SS) Rivet Material Advantages

In order to attain the longest splice wear life in highly corrosive applications, the use of stainless splices should always be used in conjunction with stainless rivets.

The wall thickness of a rivet is about 1/32" thick and the RC6 fastener is about 7/64" thick. In comparison, the fastener is 3.5 times thicker than the rivet. Given these factors, a carbon steel rivet would corrode in 20–25% of the time it takes to corrode a steel fastener strip.

The end result:

- The acid will attack the rivet causing the rivet to fail
- If used, the high quality CAI stainless alloy fastener strip would not be affected
- The belt will pull apart due to corroding rivets

With regard to the rivets, Conveyor Accessories, Inc. uses 430 stainless steel composed of 50% more carbon and chrome content.

The use of this material composition produces:

- A higher yield of strength when compared to 409SS
- Considerable corrosion resistance to mine acid water

The benefits:

- Longer splice wear life
- Less downtime
- Reduced maintenance intervals