



# QUARTERLY JOURNAL OF INFORMATION

## Issue 01.14

January 2014

Welcome to the first edition of the Clamps Incorporated Newsletter  
Clamps Tech

### Change is Good!

We have made a change to the coined / flat style U-bolts (UBF) on in-house products. This design improvement is available to all customer designed products of this type.

### Staying Current

#### Change of Design

Knurling of the coined / Flat Band U-bolts (UBF)

Based on a in-house study we started a Continuous Improvement Project that led us to an improvement of one of our products. We are now placing a knurling on the inside of the Flat of our U-bolts.



This Knurling stops the Clamp Assembly from being able to turn and allows for better gripping. It has helped Clamps Inc. to produce a better more consistent product to our customers.

By adding this new feature to your coined bend bolt (UBF type bent bolts) it not only improves the grip and makes for a better more consistent U-Bolt it does not change the part from a dimensional standpoint.

We still offer this product without the knurling based on customer requirements.

Please join us next quarter  
Thank You , Clamps Tech  
techinfo@clampsinc.com

Want to Opt-Out

[Click Here](#)

Clamps Incorporated has had several customers call and inquire about the type of finishes and what type of salt spray test they will withstand. So our first quarterly newsletter we will address Plating Specification in hopes that it will shed some light to our customers on what finishes to order and the type of protection it will provide. See Tables below:

### PLATING SPECIFICATION -

The tables below provide a guideline to the type of finishes and the salt spray test they will withstand.

#### ASTM B633-13

Class	Service Condition	Plating Thickness
Fe/Zn 5	SC 1 Mild	5 = .0002"
Fe/Zn 8	SC2 Moderate	8 = .0003"
Fe/Zn 13	SC3 Severe	13 = .0005"
Fe/Zn 25	SC4 Very Severe	25 = .0010"

#### Type of Finish

I	As Plated w/o Supplement Treatment	
II	w/Colored Chromate Coating (Hexavalent Chromium Black Only)	
III	w/Colored Chromate Conversation Coating (Chromium)	
IV	w/Phosphate Conversion Coating	Different Oils / Crystal Sizes
V	w/Color Passivate (Not a Chromate)	Clamps' Standard Clear
VI	w/Color Passivate (Not a Chromate)	Clamps' Standard Yellow

Type	Colors	Methods	Minimum Salt Spray Hours to White Rust
I	Plain	Barrel & Rack	
II	Yellow or Black	Barrel & Rack	96
III	Clear	Barrel & Rack	12
IV	Gray	Barrel	24 /168
V	Clear	Barrel & Rack	72
VI	Yellow	Barrel	120

There are a variety of top coat (sealers) that can be applied to the parts that will give added protection. Some pass a salt spray test up to 200 hours to White and 750 hours to Red. Other types of coatings such as Chrome, Paint, Galvanized and Sermaguard are also available. Each with its own unique characteristic for reaction to heat, corrosion and ultra-violet rays. All Clamps Incorporated Zinc Plating is done in Trivalent finish and is RoHs compliant. If you have questions on the types of protective coatings for your application, please contact us.



5960 American Road East  
Toledo, OH 43612  
Ph. / 419.729.2141  
Ph. / 800.837.0141  
Fax / 419.729.5776



www.clampsinc.com