

Postle Industries, Inc.

Cleveland, OH USA

Phone: 216-265-9000

Fax: 216-265-9030

E-Mail: sparky@postle.com

Web Site: www.hardbandingsolutions.com



Data Sheet

Product Innovation Duraband[®] NC



Protecting Drill Pipe and Casing with Duraband[®] NC Hardband

Maximum Casing and Tool Joint Protection CASING FRIENDLY - NON-CRACKING – 100% REBUILDABLE

Advanced drilling technology and economic pressures are pushing the envelope of drill string tool joint life, as well as casing wear. Hardbanding Solutions by Postle Industries has developed crack-free, casing friendly Duraband[®] NC hardbanding alloy for the most reliable wear protection on drill pipe tool joints without damaging the casing. Duraband[®] NC microstructure consists of a hard, but tough tool steel matrix with a high volume of tightly packed micro-constituents. The unique metallurgy of Duraband[®] NC provides wear properties that resist extreme abrasion to protect the tool joint, and at the same time, minimize wear on the casing.

Duraband[®] NC is the first hardbanding product ever developed offering maximum protection, is applied totally crack free and is 100% rebuildable. Hardbanding with Duraband[®] NC greatly reduces the risks of cracks propagating into the tool joint which could lead to flaking, spalling, casing wear or even catastrophic failure.

DurabandNC can be used for all types of drilling environments, including HPHT, Sour Gas, Highly Deviated and Geothermal Wells. Drilling these types of wells can be very hard on hardbanding and drill pipe tool joints. In addition, casing can show excessive wear. In these types of wells, typical hardbanding products that contain cracks frequently result in spalling and chipping caused by unwanted materials getting into and under the crack. This requires premature removal of the drill pipe for repair and re-application of the hardband, adding extra costs to any drilling operation.

Without cracks, re-applications are extremely easy. Duraband[®] NC can be applied directly over itself without removal or special preparation and the cost of re-application is substantially reduced. Products that stress crack allow drilling fluids, abrasives and other foreign materials to become lodged in and under the cracks. When trying to apply another layer of hardbanding over these cracks, all this unwanted material comes through the surface of the new layer as porosity and voids. In addition, those cracks that were in the previous hardband, come through as well.

With other hardbanding products, the cost of re-application can be 3 or 4 times higher since they have to be removed before re-application. In fact, close to 75% of the total cost of a re-application is removal of the previous hardbanding, application of mild steel as a buildup, and subsequent machining of the mild steel to prepare the tool joint for the application of the hardband. In addition, Duraband NC can be applied over most previous hardbanding, without the need for removal.