



CERTIFICATE OF APPROVAL

This is to certify that the following product has been reviewed and approved by Fearnley Procter FZE and an NS-1™ Technical Review Committee.

Date of Approval: 22/7/2011

Cert/NS-1™ Approval Number: 004/11-2

Valid Until: 21/7/2013

Reviewed Against: AA.03.30.00.1110 Rev. 09

Review Number: FP FZE 512

NS-1™ Quality and Inspection Requirements for New and Refurbished Drilling and Well Completion Equipment, Edition 2 – January 2006

Product: Duraband® NC Alloy Hardbanding

Candidate: Postle Industries Inc, 5500 West 64th Street, Cleveland OH 44142

FEARNLEY PROCTER NS-1™ LEVEL 2 PRODUCT APPROVAL
(Duraband® NC Alloy Hardbanding - New Application for Tool Joints Only)

Scope:

The procedure followed has been to compare the specific requirements of the relevant Fearnley Procter NS-1™ documentation with the submitted information, and to perform certain testing on the product.

The evaluation of the application procedures for Duraband® NC Alloy Hardbanding on drill pipe has been performed in compliance with the general requirements and recommendations as stipulated in NS-1™ Supplementary Requirements, AA.03.30.00.1110 (Rev. 09) Section 5.0, and Sub-Specification 90.1, 90.3 and 160.

The following data was supplied and tests performed by Postle Industries Inc. to Fearnley Procter, for this approval.

1. Casing Wear Analysis Data, 2. Hard-banding Adhesion Test Results, 3. Welding Procedures/Guidelines, 4. Inspection Guidelines, 5. Acceptance/Rejection Criteria, 6. Hardness Test Results.

Reference Documents: Postle Industries Inc. Hardbanding Manual Version 2.0 Feb 10 2011

As a result of the review Postle Industries Inc. Duraband® NC Alloy Hardbanding has been granted approval and is listed as an NS-1™ Level 2 approved product and deemed suitable for service when applied as per the processes and procedures reviewed and the requirements of NS-1™.

Approved By:

A handwritten signature in black ink, appearing to read 'Kevin Fearnley', is written over a dotted line.

Kevin Fearnley
(Chairman NS-1™ Technical Review Committee)

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