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Product Bulletin

Product Name: Eco Quest NCS 171
Product Code: 2205904
Revision Date: May 3, 2025

Eco Quest NCS 171

NANO / ZIRC, CLEAN & BONDING TREATMENT. NCS 171 offers, advanced immersion cleaning, conversion coating and final rinse passivation in a single product. Moderately Alkaline Zirconium for treatment of Aluminum, Steel, Iron, Zinc and Galvanize. A Nano + Zirconium product.

Provides a superior surface which is more receptive to painting and coatings. Provides enhanced bonding of all types of coatings. Operates at a non acid ph of typically 8.0 - 9.0.

A moderate foam product providing a level of cleaning, bonding and anti-corrosion properties under paints and coatings. Superior performance for aluminum and galvanize metals. Resistant to flash rusting for inprocess protection. Nonchromated, biodegradable, non-phosphated. Highly Cost Effective

Features & Benefits

Easy to control. Simple dilution with water. Non-Chromated. (Can Be Considered For Use In Military Aluminum Process Spec (Mil C 5541 E) With Mil C 81706 Conversion Coating Non-chrome)

Operates at a wide chemical use range. (1/2 - 5 % by volume)
Excellent performance with paints, sealers, adhesives and powder coating.

Can be used in WAND / STEAM spray APPLICATIONS and immersion dip tank applications. (Provides mild foaming and superior streak free rinse)

Physical Data

Specific gravity	1.02
Product Type	Liquid
PH	5+
LBs/Gal	8.51
Foam, 0=Low 9=High	8
Shelf Life Years	10 Years
Freeze Information	Not Damaged by Freezing

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Operating Conditions/Typical Processing

Wand Wash or Steam CLEAN + Rinse & Final seal (3 steps)

1) Clean & Prep: ECO QUEST N C S 171, 1-3%, 100 - 170 f.
   Optional Rinse for further processing
2) Rinse
3) N C S-171 treated rinse, .1/2 - 2.0% by volume, 100-125 deg. F., 25 seconds., PH 8.0-9.0
4) Air blow-off.
5) To paint

Packaging

Container Type	POLY
Net Units	467
Tare Wt.	25 Lb
Gross Wt.	492
DOT_NAME	Not regulated by D.O.T
DOT Hazard	Not regulated

Use Parameters

Concentration Range	.5-5% by volume
Temperature Range	75-170 F.
Time Range	20 sec. - min
Agitation	Spray or Dip

Waste Disposal

NEUTRALIZE, REMOVE METZLS

Holding Tank Materials of Construction:

STEEL, STAINLESS, OR POLY

Testing, Operating, & Trouble Shooting Data

Concentration By Field Dropper Test With Total Alkalinity

1) Take A 50 Ml Sample Of Solution
2) Add 5 Drops Of Indicator #2, Total Alkalinity Indicator
3) Add Drop By Drop Of 1.0n Acid (counting The Drops) Until Solution Changes

4) The Number Of Drops Required Multiplied By A Factor Of 0.5 = % By Volume
Ex) 10 Drops = 5%

Concentration By Titration With Total Alkalinity

1)Take A 50 Ml Sample Of Solution
2) Add 5 Drops Of Indicator #2, Total Alkalinity Indicator
3) Titrate With 0.1n Acid Until Solution Changes
4) The Number Of Mls Required Multiplied By A Factor Of 0.8 = % By Volume
Ex) 2.5 Mls = 2%

Conductivity

* Note: Conductivity Based On New / Fresh Bath Make-up (D I Water)
1% = 300 Mhos
2% = 530 Mhos

Other Information

It is important that the OSHA DATA, "Material Safety Data Sheet" be carefully read and reviewed with the users of this product. OSHA data is required to be posted in the work area by law.

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Our People. Your Problem Solvers.

For more information on this process,
please call us at 203.756.5521 or email: techservice@hubbardhall.com

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