

Ethanolamines/Glycol Ethers

Tier 3 Procedure

Section Number: 1511
Issue Number: 1.1
Origination Date: 08-05-93 Author:
Revision Date: 12-29-95
Title: Material Of Construction For Use In Block 5501
References: Ethanolamines/Glycol Ethers Specification Books

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1511 Material Of Construction For Use In Ethanolamines/Glycol Ethers Plant.

1.0 Objective

- 1.1 To make sure the quality of our product is not compromised and our piping specifications are followed.

2.0 Responsibility

- 2.1 It is the responsibility of the supervisor and engineer to ensure that this procedure is fully complied with.
- 2.2 It is the responsibility of all block personnel to follow this procedure.

3.0 Safety Notations

- 3.1 It is the responsibility of all block personnel to make sure this procedure is followed. If this procedure is not followed the quality of our product and the safety of the unit could be compromised.

4.0 Procedure

- 4.1 Order only 316l (316 if 316l is not available) stainless steel for use in the ethanolamines plant.
- 4.2 Order only carbon steel for the glycol ethers plant. 300 and 400 series stainless steel - usually on internal and packing.
- 4.3 We can not use copper or monel in any process service. This includes any type spray lubricant or pipe dope that contains a copper or monel base. Any pipe fittings, valves or pressure gauges.

5.0 Gaskets

- 5.1 Ethanolamines
- 5.2 All reboiler flange gaskets will be "graphonic" except for the vapor return nozzles.

Date Printed: April 18, 1998

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- 5.3 All reboiler vapor return nozzle gaskets and column man way gaskets will be stainless steel graphoil.

5.0 Gaskets: Cont'd.

- 5.4 Incoming ethylene oxide line gaskets from d-101 up to r-201 inlet should be stainless steel graphoil.
- 5.5 Other flanges 2" to 6" in the amines plant area should be stain less steel graphoil.
- 5.6 Glycol ethers gaskets

6.0 O-Rings

- 6.1 Buna-n
- 6.2 F-107
- 6.3 F-250
- 6.4 F-240
- 6.5 F-105
- 6.6 F-273 a,b & c
- 6.7 F-251 A & B
- 6.8 Teflon
- 6.9 F-140 A & B

7.0 Drums

- 7.1 Metal
- 7.2 All products but ones listed for plastic drums.
- 7.3 Plastic
- 7.4 Corrosive material
- 7.5 Low iron grade products

8.0 Revisions

Revision No. 1	12-29-95	Yearly Review
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