

SPECIFICATION

LOTTE CHEMICAL CORPORATION

DAESAN PLANT

PRODUCT : DIETHYLENE GLYCOL

| TEST ITEM | Test Method | Unit | Spec.(Min) | Spec.(Max) |
|-----------------------------------|--------------------|-------------|-------------------|-------------------|
| DEG | G.C | wt% | | |
| MEG | G.C | wt% | | 0.08 |
| TEG | G.C | wt% | | 0.08 |
| Water | ASTM E-203 | wtppm | | 2,000 |
| Acidity (as CH ₃ COOH) | ASTM D-1613 | wtppm | | 100 |
| Color (APHA) | ASTM D-1209 | - | | 15 |
| Specific Gravity (20/20℃) | ASTM D-891 | - | 1.117 | 1.120 |
| Distillation Range, 5 Vol. % | ASTM D-1078 | ℃ | 240 | |
| Distillation Range, 95 Vol. % | ASTM D-1078 | ℃ | | 250 |
| Ash | SD No. DC-254A | wtppm | | 50 |

SPECIFICATION

LOTTE CHEMICAL CORPORATION

YEOSU PLANT

PRODUCT : DIETHYLENE GLYCOL

| TEST ITEM | Test Method | Unit | Spec.(Min) | Spec.(Max) |
|-----------------------------|--------------------|-------------|-------------------|-------------------|
| Appearance | Visual | | | B&C |
| Specific Gravity (20/20 °C) | ASTM D 4052 | - | 1.1170 | 1.1200 |
| MEG | ASTM E 202 | wt% | | 0.08 |
| TEG | ASTM E 202 | wt% | | 0.08 |
| Water | ASTM E 203 | wt% | | 0.20 |
| Color (Pt-Co scale) | ASTM D 1209 | - | | 15 |
| Acidity (as Acetic Acid) | ASTM E 202 | wt% | | 0.010 |
| Ash | ASTM D 482 | wt% | | 0.005 |
| Iron | ASTM E 202 | wtppm | | 0.50 |
| Distillation 5% | ASTM E 202 | °C | 240 | |
| Distillation 95% | ASTM E 202 | °C | | 250 |
| Purity | ASTM E 202 | wt% | | |