

ICC

KOSTUSA

DEFendal™
DIESEL EXHAUST FLUID



See reverse for specifications, handling, and available package sizes.

Industrial Chemicals Corporation

4631 West 58th Ave.
Arvada, Colorado 80002
(303) 427-2727

5330 Williams S.E.
Albuquerque, New Mexico 87105
(505) 873-7883



Manufacturer Specifications

| PROPERTIES | METHOD | MINIMUM | TYPICAL | MAXIMUM |
|------------------------------------|-----------------|--------------------------|---------|---------|
| Appearance | Visual | Free & Clear of sediment | | |
| Urea Content | ISO 22241-2 | 31.8 | 32.5 | 33.2 |
| Density @ 20°C | ISO 3675, 12185 | 1.087 | | 1.093 |
| Refractive Index @ 20°C | ISO 22241-2 | 1.3814 | | 1.3843 |
| Alkalinity, %m as NH ₃ | ISO 22241-2 | | | 0.2 |
| Biuret, %m | ISO 22241-2 | | | 0.3 |
| Aldehydes, mg/kg | ISO 22241-2 | | | 5 |
| Insoluble matter, mg/kg | ISO 22241-2 | | | 20 |
| Phosphate (PO ₄) mg/kg | ISO 22241-2 | | | 0.5 |
| Calcium, mg/kg | ISO 22241-2 | | | 0.5 |
| Iron, mg/kg | ISO 22241-2 | | | 0.5 |
| Copper, mg/kg | ISO 22241-2 | | | 0.2 |
| Zinc, mg/kg | ISO 22241-2 | | | 0.2 |
| Chromium, mg/kg | ISO 22241-2 | | | 0.2 |
| Nickel, mg/kg | ISO 22241-2 | | | 0.2 |
| Aluminum, mg/kg | ISO 22241-2 | | | 0.5 |
| Magnesium, mg/kg | ISO 22241-2 | | | 0.5 |
| Sodium, mg/kg | ISO 22241-2 | | | 0.5 |
| Potassium, mg/kg | ISO 22241-2 | | | 0.5 |

| Temperature °Fahrenheit | Temperature °Celsius | Minimum Shelf Life |
|-------------------------|----------------------|--------------------|
| < 50° F. | <10° C | 36 months |
| < 77° F. | <25° C | 18 months |
| < 86° F. | <30° C | 12 months |
| < 95° F. | <35° C | 6 months |
| > 95° F. | >35° C | Retest each lot |

Industry Standards:

ISO 22241:2006

API

AUS 32

DIN 70070:2005

| | | | |
|--------|-------|-----------|-------|
| CAS #: | 32.5% | 57-13-6 | UREA |
| | 67.5% | 7732-18-5 | Water |

EINECS #: 200-315-5



Package Sizes to Meet Your Needs



1 Gallon
JUG
4 / Case



2.5 Gallon
JUG w/spout
2 / Case



55 Gallon
DRUM



330 Gallon
TOTE

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