

INTEK

nuclear decon solutions

- SAFE
- EFFECTIVE
- ECONOMICAL

INTEK ND-75

is an aqueous based, neutral pH, decontaminating agent designed to dissolve inorganic compounds of radioactive isotopes and the corrosion product matrices that bind them to surfaces. It contains a patented chelating agent that rapidly removes and dissolves corrosion products (e.g., metal oxides), binds radioactive isotopes and prevents their redeposition without damaging the base materials, and without the attendant hazards associated with acidic or alkaline products. It is also safe to use with most synthetics and nonmetallics.

ND-75 is a purple liquid that mixes readily with water in all proportions. It is easily administered using conventional heating and circulating equipment or baths. There are no special precautions required for handling, such as would be required for acids or alkalis.

ND-75 effectively and safely removes radioactive contaminants, even at low temperatures, without deleterious effect to equipment or underlying metals and alloys, as well as most synthetics and nonmetallics.

ND-75 is typically used at temperatures between (60°C) 140°F and (96°C) 205°F; however, it will dissolve contaminants at temperatures as low as 5°C (41°F), with increased exposure times. The exposure time required approximately doubles for each 10°C (18°F) decrease in temperature.

PHYSICAL & CHEMICAL PROPERTIES

Appearance.....	Clear purple liquid
Odor.....	Musty
Specific Gravity H ₂ O=1.....	1.05 +/- 0.05
pH (75°F).....	7.00 +/- 0.1
Solubility in H ₂ O.....	100%

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BENEFITS

- **Safe for personnel:** Nonacid, Noncaustic, Nonflammable, Nonhazardous
- **Safe for equipment:** Exceptionally low corrosion rates
- **Removes only the contaminants, and not underlying materials of construction**
- **Safe to use on most synthetics and non-metallics**
- **More effective than many other decontaminating agents, especially at low temperatures**
- **Mixes readily with water in all proportions**
- **Easy and safe to use**
- **Effective on mild, high carbon and stainless steels, Inconel, aluminum, titanium, copper, Monel, copper nickel, bronze, and many other metals and alloys**
- **Contaminated solution is easily destroyed by chemical oxidation**
- **Chemical destruction precipitates nearly all contaminants**
- **Chemical destruction easily verified with simple to use test kit**
- **Long storage life (> 5 years, if unopened)**

INTEK Technology

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