



PRODUCT CATALOGUE 2024

“No success or achievement in material terms is worthwhile unless it serves the needs or interests of the country and its people and is achieved by fair and honest means.”

- J. R. D. TATA



Business Associates:



NirSafe

Quick. Accurate. Affordable.

Total Hardness Test Kit for Water Analysis

NEO-221 For Low Hardness

NEO-226 For High Hardness

The parameter control of raw water, potable water boilers, cooling towers, softeners, and demineralizers- essential to the operations of practically all industries- requires regular water analysis.

Traditional methods for analysing water demand a complex laboratory setup and qualified staff.

The **NIRSAFE** Water Quality Products substitute traditional colour comparison techniques and simple drop tests with analytical techniques like titrimetric and colourimetry.

Monitoring and taking preventive action can be done by the operators themselves, which makes it quick and easy.

The **NIRSAFE** is a chemical test kit based on titration that measures total hardness in two models:

- **NEO-221:** 1-20 ppm & 2-100 ppm
- **NEO-226:** 2-40 ppm & 10-500 ppm

All the tools and reagents required for the analysis are provided to the **NIRSAFE**. There are enough reagents in the test kit to conduct about 250 tests.

Quick Result. Easy to Use. Yet Affordable.

Key Features:

- Easy to use
- Low cost
- Accurate
- Quick result
- Safe

Applications:



Raw Water Treatment Plant

WTP Area

Boiler House

Softening Plant

Cooling Water System

Drinking Water System

Swimming Pool

RO Treatment Plant

For product characteristics and for the nature of special risks and safety advice consult our MSDS.

Manufactured & Marketed by: **NEO NIR ENGINEERING**

Neo-Nir: House of Water Treatment, Plot No: A-36, City Industrial Estate, Near Swaminarayan Temple, Udhna-Navsari Main Road, Surat-394210. Gujarat. INDIA. Tel: 0261 - 231 2716 / 236 4251 Email: info@neonir.com

Making Water Perform at
House of Water Treatment



NirSafe

Quick. Accurate. Affordable.

SDI (Silt Density Index) Kit

NEO-SDI Tool to save costly RO Membrane

Preventive Monitoring And Control Of Membrane Fouling By SDI Kit.

NIRSAFE SDI Kit is designed to measure the level of particulate contaminations are there in feed stream even with comparatively low turbidity.

The test, which estimates the rate at which colloids and particles fouling would occur in membranes, is widely acknowledged in the industry and is based on ASTM Method 4189-95.

The SDI test evaluates the rate at which flow drops through a membrane with a diameter of 47 mm and pore size of 0.45 μm . The 0.45 μm membrane is chosen because it is more likely to become fouled or choked by colloidal materials than by hard particles like sand or scale. The drop in flow rate is converted to a number between 1 and 100. The input water's tendency to foul decreases with decreasing silt density index number.

For economical and energy-efficient operations, most reverse osmosis system manufacturers recommend a silt density index of 3 to 5 or lower.

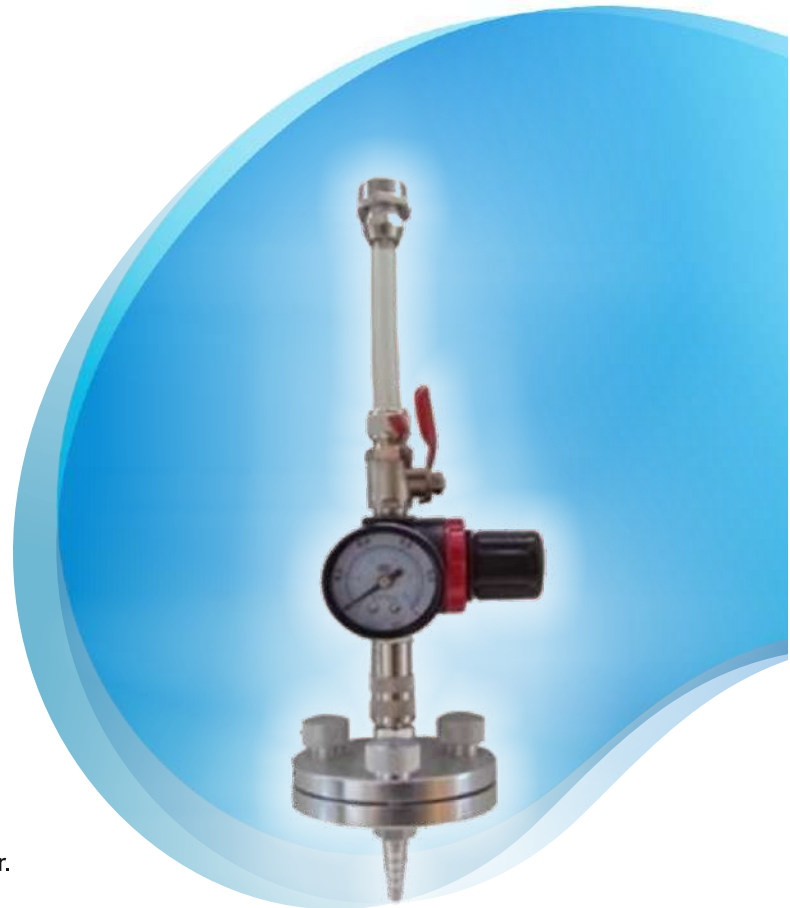
A number between 1 and 100 is obtained by converting the flow rate decline. The lower the silt density index number, the lower the fouling tendency of the input water. The majority of reverse osmosis system manufacturers advise a silt density index of 5 or below to guarantee economical and energy efficient operations.

NIRSAFE SDI KIT CONTAINS:

- ❶ SS316, 47 mm Filter Holder
- ❷ 0.45 μm , 47 mm Filter Papers
- ❸ Pressure Gauge & Pressure Regulator
- ❹ On /Off Valve
- ❺ Stopwatch
- ❻ Measuring Beaker 500 ml
- ❼ Box
- ❽ User Manual

Key Features:

- Easy to use
- Low cost
- Accurate
- Quick result
- Safe



Quick Result. Easy to Use. Yet Affordable.

Application:



Reverse Osmosis (RO) Water Treatment Plants

For product characteristics and for the nature of special risks and safety advice, please refer to our user manual.

Marketed by: **NEO NIR ENGINEERING**

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