



## ORIDENT

“O-RIDENT” is an Unique, Reliable and handy non-Destructive Testing instrument for checking the Material of O – RINGS.

- It works on the principle of identification of O-rings based on the modulus of resilience of the polymer of the O-ring.
- The ‘O-rident’ takes the guesswork out of O-ring selection and its chemical compatibility during installations.
- Its handy enough to be carried in your pocket like a pen.
- It’s the only one of its kind available today.

### APPLICATION

The ‘O-rident’ is a pen-sized instrument with a SS hollow tube type body. A free falling specially researched non ferrous alloyed dead weight with a pin holder is provided inside the body. This instrument is to be placed on the O-ring to be identified as shown.

The “O-RIDENT” is graduated for Viton(V), Kalrez(K), Nitrile(N) and EthylenePropylene(EP) by prominent markings as in brackets .

The free falling dead weight with a unique profile when dropped from the top position bounces back based on the modulus of resilience of the o-ring.

Each o-ring of different material has a different and unique modulus of resilience.

The height of the first bounce of the dead weight after hitting the o-ring therefore determines the material of the o-ring based on the labeled graduations provided.

### “O-RIDENT” can be used to

- **Verify** Material of O-Ring before installation.
- **Differentiate** between unidentified O-Rings.
- **Check** Mislabeled O-Rings.
- **Sort** out Mixed O-Rings.
- **Eliminate** downtime due to O-ring failures.
- **Conduct** internal audits as a quality assurance tool.

“O-RIDENT” is most suitable for identifying O-rings of 2.62mm to 7mm thickness and O-rings of shore-D60 to shore-D80.

### PRECAUTION

- The “O-RIDENT” must be used on the O-rings only which are undamaged and within rated shelf life.
- Do not use “O-RIDENT” to identify flat gasket materials.

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