

CPI 114

Special compressor piston ring and packing material



CPI 114 is a proprietary filled PTFE compound which has been developed especially for dry oxygen compressors.

CPI 114 has been independently ignition tested and approved for this application.

CPI 114 may also be selected for dry gases which contain oxygen as a constituent, such as bone-dry air and crude argon.

Results of extensive wear testing indicate that CPI 114 exhibits excellent wear resistance in these environments.

The exceptional flexibility of CPI 114 enable it to be safely used as a stretched-on rider ring where this design is required.

CPI, part of the Howden group, should be consulted for the proper design and application of its specialized products and materials. For further advice and technical support please contact CPI directly.

| Typical properties | Metric | Imperial |
|--|------------------------------|--------------------------------|
| Tensile strength at 20°C | 20 MPa | 2900 psi |
| Elongation at 20°C (%) | 270 | 270 |
| Coefficient of thermal expansion | 70-90 x 10 ⁻⁶ /°C | 3.9-5.0 x 10 ⁻⁵ /°F |
| Hardness (Shore 'D') | 60-65 | 60-65 |
| Specific gravity | 2.3 | 2.3 |
| Suggested mean temperature limit (Ts +Td)/2 (non-lube air compressors) | 120°C | 250°F |

Note: The values above are for reference only and are not intended for specification or quality control purposes.