



# CPI 307

High duty air compressor  
piston ring and packing material



**CPI 307 is a special self-lubricating material, which can be used to provide reliable operating lives in non-lubricated, atmospheric air compressors.**

CPI 307 has been formulated to give a useful combination of properties including toughness, resistance to elevated temperature and good wear resistance in atmospheric (moist) air.

These properties make CPI 307 an ideal choice for packings and for air-cooled air compressor rings. Its flexibility allows the use of stretched-on (solid) rider rings where these are required.

CPI 307 should not be selected for bone-dry air compressors - other CPI grades are available for this service.

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	15 MPa	2175 psi
Elongation at 20°C (%)	150	150
Coefficient of thermal expansion	70-90 x 10 <sup>-6</sup> /°C	3.9-5.0 x 10 <sup>-5</sup> /°F
Hardness (Shore 'D')	65-70	65-70
Specific gravity	3.8	3.8
Suggested mean temperature limit (Ts +Td)/2 (non-lube air compressors)	130°C	270°F



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

[www.CPIcompression.com](http://www.CPIcompression.com)

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