



Product Information

TECASINT – Excellent Oxygen compatibility

Ensinger TECASINT Polyimides are compatible with various oxygen systems.

Compared to fluorine plastics, polyimides have very high creep resistance and excellent mechanical resilience making these materials perfectly suited for highly strained components.

Application examples

- Valve seats and valve bodies for gaseous Oxygen
- Sealings in Oxygen atmosphere
- Oxygen injectors for chemical rocket propulsions

Oxygen compatibility DIN EN 1797: 2002-02	BAM M034 p_{limit} [bar]	BAM M034 T_{limit} [°C] *
TECASINT 1011	25	60
TECASINT 1021	30	60
TECASINT 2011	30	60
TECASINT 2021	25	60



TECASINT Seal Rings

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* The Test has been done according to the DIN standard by the "Bundesanstalt für Materialforschung und -prüfung (BAM in Berlin)" at 60°C and is stated in the data sheet "Merkblatt M034-I „Sauerstoff“ (BGI 617)". The Useability at higher Temperatures is quite given, nevertheless needs to be proven on individual purpose.