



Ozone Solutions

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Material Compatibility with Ozone

Ozone Compatible Materials Chart *

Material	Rating (Source: Cole Parmer) [Ozone Concentrations not specified]
ABS plastic	B - Good
Acetal (Delrin®)	C - Fair
Aluminum	B - Good
Brass	B - Good
Bronze	B - Good
Buna-N (Nitrile)	D - Severe Effect
Butyl	A - Excellent
Cast iron	C - Fair
Chemraz	A - Excellent
Copper	B - Good
CPVC	A - Excellent
Durachlor-51	A - Excellent
Durlon 9000	A - Excellent
EPDM	A - Excellent up to 100-deg F
EPR	A - Excellent
Epoxy	N/A
Ethylene-Propylene	A - Excellent
Flexelene	A-Excellent
Fluorosilicone	A - Excellent
Galvanized Steel	In Water (C - Fair), In Air (A - Excellent)
Glass	A - Excellent
Hastelloy-C®	A - Excellent
HDPE	A- Excellent
Hypalon®	C - Fair
Hytrel®	C - Fair
Inconel	A - Excellent
Kalrez	A - Excellent up to 100-deg F
Kel-F® (PCTFE)	A - Excellent
LDPE	B - Good
Magnesium	D - Poor
Monel	C - Fair
Natural rubber	D - Severe Effect
Neoprene	C - Fair
NORYL®	N/A
Nylon	D - Severe Effect
PEEK	A - Excellent

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Polyacrylate	B - Good
Polyamide (PA)	C-D (Not recommended)
Polycarbonate	A - Excellent
Polyethylene	In Water (B-Good), In Air (C-Fair)
Polypropylene	C - Fair
Polysulfide	B - Good
Polyurethane, Millable	A - Excellent
PPS (Ryton®)	N/A
PTFE (Teflon®)	A - Excellent
PVC	B - Good
PVDF (Kynar®)	A - Excellent
Santoprene	A - Excellent
Silicone	A - Excellent
Stainless steel - 304	B - Good/Excellent
Stainless steel - 316	A - Excellent
Steel (Mild, HSLA)	D - Poor
Teflon	A - Excellent
Titanium	A - Excellent
Tygon®	B - Good
Vamac	A - Excellent
Viton®	A - Excellent
Zinc	D - Poor

Note: These materials were tested at ozone levels exceeding 1,000 PPM.

Ratings -- Chemical Effect

- **Excellent.** -- No effect
- **Good** -- Minor Effect, slight corrosion or discoloration.
- **Fair** -- Moderate Effect, not recommended for continuous use. Softening, loss of strength, swelling may occur.
- **Sever Effect** -- Not recommended for **ANY** use.

N/A = Information Not Available.

* Remember that different materials react differently to wet or dry ozone. DRY ozone has been dried to a -60 deg F or lower, WET ozone contains small amounts of moisture. Contact Ozone Solutions to determine if your material is compatible.

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