

## Material Compatibility with Ozone

Using ozone for periodic shock treatments or for mold and smoke remediation should not cause concern with materials damage.

The ozone materials compatibility chart is for choosing ozone room construction materials / seals, or for industrial uses where constant concentrated high levels of ozone will be used.

<b>Material</b>	<b>Rating</b> (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
Fluorosilicone	A - Excellent
Galvanized Steel	In Water (C - Fair), In Air (A - Excellent)
Glass	A - Excellent
Hastelloy-C®	A - Excellent
Hypalon®	A - Excellent
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
Norprene	A - Excellent
Nylon	D - Severe Effect
PEEK	A - Excellent
Polyacrylate	B - Good
Polycarbonate	A - Excellent
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
Titanium	A - Excellent
Tygon®	B - Good
Vamac	A - Excellent
Viton®	A - Excellent
Zinc	D - Poor

## Ozone Compatible Materials

### ***Ratings -- Chemical Effect***

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