Krytox™
Performance Lubricants

Compatibility with Gases

Product Information

Compatibility of Krytox™ Lubricants with Different Gases

Name	Formula	R#	Non-Reactive
Acetylene	C_2H_2		N
Ammonia	NH_3		N
Argon	Ar		N
Arsine	AsH_3		N
Boron trichloride	BCl_3		U
Boron trifluoride	BF_3		U
Bromochlorodifluoromethane	$CBrClF_2$	R12B1	D
Bromotrifluoroethylene	C_2BrF_3	R123B1	N
Bromotrifluoromethane	$CBrF_3$	R13B1	D
Butadiene(1,2)	C_4H_6		N
Butadiene(1,3)	C_4H_6		N
Butane	C_4H_{10}		N
Butene	C_4H_8		N
Butene cis	C_4H_8		N
Butene trans	C_4H_8		N
Carbon dioxide	CO_2		N^1
Carbon monoxide	CO		N
Carbon tetrafluoride/Tetrafluoromethane	CF_4	R14	D
Carbonyl sulphide	COS		N
Chlorine	Cl_2		N
Chlorodifluoromethane	$CHClF_2$	R22	D
Chloromethane	CH_3Cl	R40	D
Chloropentafluoroethane	C_2ClF_5	R115	D
Chlorotetrafluoroethane	C_2HClF_4	R124	D
Chlorotrifluoroethane	$C_2H_2ClF_3$	R133a	D
Chlorotrifluoroethylene	C_2ClF_3	R1113	D

N: Non-reactive N^1: Soluble in supercritical CO_2 N^2: No reaction at 200 °C (392 °F) D: Dissolved U: Uncertain

Chemours™

Compatibility of Krytox™ Lubricants with Different Gases (continued)

Name	Formula	R#	Non-Reactive
Chlorotrifluoromethane	$CClF_3$	R13	D
Cyclopropane	C_3H_6		N
Deuterium	D_2		N
Diborane	B_2H_6		N
Dibromodifluoromethane	CBr_2F_2	R12B2	N
Dibromotetrafluoroethane	C_2BrvF_4	R114B2	N
Dichlorodifluoromethane	CCl_2F_2	R12	D
Dichlorofluoromethane	$CHCl_2F$	R21	D
Dichlorosilane	SiH_2Cl_2		N
Dichlorotetrafluoroethane	$C_2Cl_2F_4$	R114B2	D
Dicyanogen	C_2N_2		N
Difluoro(1,1)-1-chloroethane	$C_2H_3ClF_2$	R142b	D
Difluoroethane(1,1)	$C_2H_4F_2$	R152a	D
Difluoroethylene(1,1)	$C_2H_2F_2$	R132a	N
Dimethylamine	C_2H_7N		N
Dimethylether	C_2H_6O		N
Disilane	Si_2H_6		N
Ethane	C_2H_6O		N
Ethyl chloride	C_2H_5Cl	R160	N
Ethylamine	C_2H_7N		N
Ethylene	C_2H_4		N
Ethylene oxide	C_2H_4O		N
Fluorine	F_2		N^2
Fluoroethane	C_2H_5F	R161	N
Fluoromethane	CH_3F	R41	N
Fluoroform/Trifluoromethane	CHF_3	R23	D
Germane	GeH_4		N
Helium	He		N
Hexafluoroethane	C_2F_6	R116	N
Hexafluoropropene	C_3F_6		N
Hydrogen	H_2		N
Hydrogen bromide	HBr		N
Hydrogen chloride	HCl		N
Hydrogen cyanide	HCN		N
Hydrogen fluoride	HF		N
Hydrogen iodide	HI		N
Hydrogen sulfide	H_2S		N
Isobutane	C_4H_{10}		N
Isobutylene	C_4H_8		N
Krypton	Kr		N
Methane	CH_4		N

N: Non-reactive N^1: Soluble in supercritical CO_2 N^2: No reaction at 200 °C (392 °F) D: Dissolved U: Uncertain

Compatibility of Krytox™ Lubricants with Different Gases (continued)

Name	Formula	R#	Non-Reactive
Methylacetylene	C_3H_4		N
Methylamine	CH_5N		N
Methylbromide	CH_3Br		N
Methylmercaptan	CH_4S		N
Methylsilane	CH_6Si		N
Neon	Ne		N
Nitric oxide	NO		N
Nitrogen	N_2		N
Nitrogen dioxide	NO_2/N_2O_4		N
Nitrous oxide	N_2O		N
Nitrogen trifluoride	NF_3		N
Octafluorobutene	C_4F_6		N
Octafluorocyclobutane	C_4F_8		N
Octafluoropropane	C_3F_8		N
Oxygen	O_2		N
Phosgene	$COCl_2$		N
Phosphine	PH_3		N
Propadiene	C_3H_4		N
Propane	C_3H_8		N
Propylene	C_3H_6		N
Propylene oxide	C_3H_6O		N
Silane	SiH_4		N
Silicon tetrachloride	$SiCl_4$		N
Silicon tetrafluoride	SiF_4		N
Sulfur dioxide	SO_2		N
Sulfur hexafluoride	SF_6		N
Sulfur tetrafluoride	SF_4		N
Tetrafluoroethylene	C_2F_4	R114	N
Trichlorosilane	$SiHCl_3$		N
Trichlorotrifluoroethane	$C_2Cl_3F_3$	R113	D
Trifluoroethane(1,1,1)	$C_2H_3F_3$	R143a	D
Trimethylamine	C_3H_9N		N
Tungsten hexafluoride	WF_6		N
Vinyl bromide	C_2H_3Br	R140B1	N
Vinyl chloride	$C_2H_3ClF_2$	R140	N
Vinyl fluoride	C_2H_3F	R141	N
Xenon	Xe		N

N: Non-reactive N[1]: Soluble in supercritical CO_2 N[2]: No reaction at 200 °C (392 °F) D: Dissolved U: Uncertain

For product information, industry applications, technical assistance, or global distributor contacts, visit krytox.com or within the U.S. and Canada, call 1-844-773-CHEM/2436 or outside of the U.S., call 1-302-773-1000.

Replaces: K-26901
C-10577 (12/15)