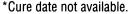
## O-Ring Code & Media Selection

The following table and list may be used to interpret Republic standard and semi-standard Part Numbers, and as a guide in selecting elastomer seals for use with various media. Since seal compound selection must also take into account the gland design, pressure, temperature and seal function (dynamic or static), we suggest complete application and media information be sent to us so we can offer a specific recommendation. Sealing materials other than the compounds listed are available.

Code	0-Ring	Compound	Specification	Temperature Guide °F		
No.	No.	Base	No.	Minimum	Maximum	Service
1	SP101	Buna N	MIL-P-5315	-67	+200	Aircraft fuels JP3, JP4, JP5 and reciprocating engine type commercial gasoline and kerosene MS29512 & MS29513.
*2	SP100	Buna N	Buna-N (commercial)	-40	+250	Mineral oils, hydraulic fluids, pneumatic service, stoddard solvent, ethylene glycol.
3	SP102	Buna N	MIL-P-5516, Class B	_		Inactive for Military use. See MIL-P-5516C notice dated 18 July 1975. Use MIL-P-25732 (SP132) or MIL-P-83461 (SP173). Consult factory.
7	SP109	Neoprene (Cloroprene type)	AMS 3209 Sulfur Free	-65	+300	Ozone and weather resistant. Also use with all freons except 11, 21 and MF. (No free element sulfur.)
*26	SP131	Buna N	U.L. approved	-60	+250	U.L. approved for gasoline, kerosene, LPG, anhydrous ammonia (-60° to +120°F) No. 1 thru No. 6 fuel oils (-60° to +250°F).
27	SP132	Buna N	MIL-P-25732	-65	+275	Petroleum base hydraulic fluid, aircraft, and ordnance MS28775.
28	SP133	Viton A	Fluorocarbon AMS 7278 MIL-R-83248, Type I, Class I	-20	+400	High temperature oils, aromatic service, all pydrauls, battery acid NAS1593, NAS1595.
52	SP160	Ethylene Propylene		-65	+300	Skydrol, cellulube, steam, phosphate esters, water, air, dilute acids. Should not come in contact with petroleum products. All sizes color coded yellow. MIL-R-83285 GR80.
*T	SP103	Teflon	AMS 3651	-65	+400	Compatible with most liquids and gases except some fluorochemicals.



**NOTE:** Teflon O-rings are not recommended for general applications.





## Republic Reference Data O-Ring Code & Media Selection

MEDIA ACETIC ACID	CODE NO. 52 52
AIR. HIGH TEMP. (TO 300° F.)	52 T
ALUMINUM NITRATE ALUMS NH, CR K AMINES, MXED	28 2 2
AMMONIA, GAS, COLDAMMONIA, GAS, HOT AMMONIA, LIQUID (ANHYDROUS)	
AEROZENE 50 AIR AIR, HIGH TEMP. (TO 300° F.) AIR, LUBRICATED ALKAZENE ALUMINUM NITRATE ALUMS NH, CR K AMINES, MIXED AMMONIA, GAS, COLD AMMONIA, GAS, HOT AMMONIA, GAS HOT AMMONIUM CARBONATE AMMONIUM CARBONATE AMMONIUM CHORIDE AMMONIUM HYDROXIDE AMMONIUM NITRATE AMMONIUM NITRATE	52
AMMONIUM NITHITE  AMMONIUM PHOSPHATE  AMMONIUM SULPHATE  AMMONIUM SULPHIDE	2 2 2
AMYL ACETATE AMYL ALCOHOL ANDEROL, (DI-ESTER) ANG-25 (GI YCERAL ESTER)	52 52 28
AMMONIUM NITRATE AMMONIUM NITRITE AMMONIUM PHOSPHATE AMMONIUM SULPHATE AMMONIUM SULPHATE AMMONIUM SULPHATE AMMONIUM SULPHIDE AMYL ACETATE AMMONIUM SULPHIDE AMYL ALCOHOL ANDEROL, (DI-ESTER) ANG-25 (GLYCERAL ESTER) ANG-25 (DI-ESTER BASE) (TG749) ANILINE ASPHALT	28 52
AROMATIC FUEL 50% ASPHALT ASTM OIL, NO. 1, 2, 3	28 28 28
AHOMATIC FUEL 50% ASPHALT ASTM OIL, NO. 1, 2, 3 ASTM OIL, NO. 4 ASTM REFERENCE FUEL A, B ASTM REFERENCE FUEL C AUTOMATIC TRANSMISSION FLUID AUTOMATIC BRAKE FLUID	28 2 28
AUTOMATIC BRAKE FLUID	28
BARDOL B	28
BRAKE FLUID (NON-PETROLEUM) BUNKER OIL	52
BUTANOL (BUTYL-ALCOHOL) BUTYL ALCOHOL BUTYL CELLOSOLVE ADIPATE BUTYLENE BUTYLSTEARATE	2 52 28
BUTYL STEARATE  CALCIUM CHLORIDE  CALCIUM HYDROXIDE	28
CALCIUM CHLORIDE CALCIUM HYDROXIDE CALCIUM HYPOCHLORIDE CALCIUM NITRATE CANE SUGAR LIQUORS CARBONIC ACID CARBON DISULPHIDE CARBON TETRACHLORIDE CASTOR OIL CELLOSOLVE	52
CARBON DISULPHIDE CARBON TETRACHLORIDE CASTOR OIL CELLOSOLVE	28
CELLOSOLVE CELLULUBE A60, 90, 100, 150, 220, 300, CELLUTHERM 2505A CHLORINATED SALT BRINE CHLORINATED SOLVENTS CHLORINE CHLORINE CHLORINE CHLORINE CHLORINE CHLORINE CHLORINE	52 50052 28
CHLORINATED SOLVENTS CHLORINE CHLOROFORM CHROME PLATING SOLUTIONS	28 28 28
COCONUT OII	7
COD LIVER OIL COKE OVEN GAS COOLANOL (MONSANTO) COPPER SULPHATE CORN OIL COTTONSEED OIL	28 2
CREOSOTE CREOSOLS CRUDE OIL CUTTING OIL	28 28
DELCO BRAKE FLUID.  DENATURED ALCOHOL  DETERGENT, WATER SOLUTION  DEVELOPING FLUIDS (PHOTO)  DIESEL OII	
DEVELOPING FLUIDS (PHOTO) DIESEL OIL DI-ESTER SYNTHETIC LUBRICANTS	2
DIESEL OIL  DI-ESTER SYNTHETIC LUBRICANTS  DOWTHERM, A, E  DOWTHERM, 209  DOW GUARD  DRY CLEANING FLUIDS	28 2 2
ETHANE	2
ETHANOL ETHYL ALCOHOL ETHYLENE CHLORIDE ETHYLENE GLYCOL ETHYLENE OXIDE	28 52 52

MEDIA FLUOROL FORMALI	UBE		CODE	52
FREON, 1 FREON, 1 FREON, 1 FREON, 2	1	L #22 (50/50	MIXTURE)	7
I OLL OIL	πο		• • • • • • • • • • • • • • • • • • • •	20
GASOLINI GELATIN GLUCOSE GLYCERII	E NE-GLYCER	ÖL		
HALOWA) HEF-2 (HI	K OIL GH ENERGY	FUEL)		28
N-HEXAN HYDROLL HYDRAUL HYDRAZII HYDROCA	E JBE-WATER IC OIL (PET NE ARBONS (SA	ETHYLENE ( ROLEUM BAS TURATED)	GLYCOL SE)	2
JP 5 (MIL- JP 6 (MIL- JP X (MIL-	J-5624) J-5624) J-25656) F-25604)			1 1 1
LIGHT GR LINDOL, H LINSEED ( LIQUID OX	EASE YDRAULIC F OIL YGEN	LUID		2 52 2
LIQUID PE LUBRICAT LUBRICAT LUBRICAT	TROLEUM O ING OILS, D ING OILS, P ING OILS, S	GAS (LPG) I-ESTER ETROLEUM E AE 10, 20, 30	3ASE , 40, 50	.2 28 .2
MERCURY METHANE METHANC	, DL			.2
METHYL A METHYL C METHYL E	LCOHOL HLORIDE THYL KETO	NE (MEK)		.2 28 52
MIL-S-3136 MIL-S-3136 MIL-S-3136	3, TYPE I, TY 6, TYPE IV O 6, TYPE V OI	PE II, TYPE I IL, LOW SWE L, MEDIUM S	II FUELELL	.1
MIL-S-3136 MIL-L-3150 MIL-O-350 MIL-G-354	3, TYPE VI O ) 3 5	IL, HIGH SWI	ELL	.2 27 27 27
MIL-G-55/	2			. 1
MIL-O-608 MIL-L-6082 MIL-H-6083	] 3			27 27 27
MIL-A-609 MIL-L-6387 MIL-F-7024				52 28 .1
MIL-G-7118 MIL-G-718 MLO-7277	3 7 HYDR			27 27 28
MIL-G-7557 MIL-G-771 MIL-L-7808 MIL-L-7870				28 27 28 27
MLO-8200 MLO-8446 MLO-8515	5 HYDR 5 (MLO-8515			28 28 28 28
MIL-L-9000 MIL-L-9236 MIL-E-9500 MIL-G-1092	) 24			27 28 52 27
MIL-H-1391 MIL-L-1501 MIL-L-1501	0 6 7	•••••••		52 27 27

MEDIA	CODE	
MAIL 1 47004	CODE I	. 27
MIL-H-19457 MIL-L-21260		. 52
MIL-H-22251 MIL-L-23699		. 52
MIL-G-25013	(RJ-1) (RP-1)	. 28
MIL-G-25537 MIL-F-25558	(RJ-1)	.27 1
MIL-R-25576	(RP-1)	į
WIIL-L-2000 I	***************************************	. 20
MII -(3-25/60		വ
MIL-H-27601		. 28
MINERAL OI	LS	. 52
MINESAFE .	LS KE FLUID	2
NATURAL G	AS FOIL	. 28
NEATSFOOT	「OIL	2
ORONITE		2
OS 45 OS 70		. 28
OXALIC ACI	Ö	. 28 . 52
OXYGEN 200 OZONE	) °F	. 22
PEANUT OIL	VER	2
PENTANE	1 OIL	2
PHENOL	· OIL	2 .28
PINE OIL PLATING SO	LUTIONS	2 .52
PNEUMATIC	SERVICE	2
PRESTONE	ANTIFREEZE	2
PRL-HIGH TE	EMP. HYDR. OIL GAS	.28
PROPANE	2010	2
PYRANOL, T	RANSFORMER OIL	2 2
PYDRAUL, 15	50 35 A200 312 AC E-9 625	52
PYROGARD	42, 43, 53, 55	52
PYROGARD PYROLUBE .	LUTIONS SERVICE CHLORIDE ANTIFREEZE MP. HYDR. OIL GAS COHOL RANSFORMER OIL 50 50 50 535, A200, 312, AC, F-9, 625 A2, 43, 53, 55 C, D	2 .28
RAPESEED (	DIL	52
SAL AMMON SANTO SAFE	IAC	52 28
SEWAGE	REASES	2
SILICONE OI	= 300 REASES	52
SODA ASH	0, 7000	52 2
SODIUM CHL	ORIDE	2
SOUR NATU	RAL GAS	7
SOUR CRUD	E OIL L	7
SR-6 FUEL		28
STEAM, BELO	0, 7000 ORIDE RATE RAL GAS E OIL L DW 350° F SOLVENT	52
STODDARD S	SOLVENT	2
TANNIC ACIE	```	,
TAR, BITUMI	NOUS	2 28
TRANSFORM	IER OIL ON FLUID TYPE A ETHYLENE	2
TRICHLORO	ETHYLENE	2 28
TURBINE OIL		٠. د
		2
HYDRAZIN	RICAL DIMETHYL NE (UDMH)	52
	, ,	
VEGETABLE	OIL	2
VINEGAR		7
WAGNER 218 WATER	B BRAKE FLUID	52
WHITE PINE	OIL	2 28
WHITE OIL	HOL	2
WŎŎĎ ÖĪL	100	2
XYLENE		28
ZINC CHLORI	IDE	
ZINČ ŠULPHA	ATE	2



