

O-RING NOMENCLATURE

BIG7
Most Common
O-rings

FDA
=21 CFR FDA
Compliant

UL
=UL Listed/
Certified

Family	Material	Duro	Color	CS	Nomenclature	Additional Names	
O-Rings (AS568 inch)	NBR	70	Black		N70 ___ BIG7	Nitrile Buna Buna-N Acrylonitrile-Butadiene Rubber	
	NBR UL	70	Black		AS568-___ N70D		
	NBR	90	Black		N90 ___ BIG7		
	NBR PC	90	Black		N90 ___ PC		PC = Peroxide Cure (Old Name C67 ___)
	NBR	50	Black		N50 ___		
	NBR FDA	70	Black		AS568-___ N702X		FDA / 3A / NSF61
	NBR FDA	75	Green		N75 ___ -MD		Metal Detectable
	HNBR	70	Green		HSN70 ___		(Old Name HSN ___)
	HNBR	70	Black		HNBR70 ___		Hydrogenated NBR
	HNBR	80	Black		HNBR80 ___		Highly Saturated Nitrile HNBR = HSN
	HNBR	90	Black		HNBR90 ___		
	EPDM	70	Black		E70 ___ BIG7	Ethelene Propylene Diene Terpolymer (EPR ≈ EPDM)	
	EPDM PC	70	Black		E70 ___ PC BIG7	PC = Peroxide Cure	
	EPDM SC	70	Black		E70 ___ SC BIG7	SC = Sulfur Cure	
	EPDM SC FDA	70	Black		AS568-___ E882	FDA / NSF61	
	EPDM FDA	75	Yellow		E75 ___ -MD	Metal Detectable	
	EPDM	90	Black		E90 ___		
	Silicone FDA	70	Red		S70 ___ BIG7	Silicone VMQ Polydimethylsiloxane	
	Silicone FDA	75	Red		S75 ___ -MD	Metal Detectable	
	FVMQ	70	Blue		F70 ___	Flourosilicone	
	Neoprene®	70	Black		C70 ___	Chloroprene CR	
	FKM	75	Black		V75 ___ BIG7	FKM FPM	AS568___ V575 AS568___ V590 AS568___ V603 AS568___ V591
	FKM	90	Black		V90 ___ BIG7	Flourocarbon Rubber	
	FKM	75	Brown		BV75 ___ BIG7		
	FKM	90	Brown		BV90 ___		
	FKM FDA	75	Blue		V75 ___ -MD	Metal Detectable	Viton® (DuPont)
	FKM FDA	75	Black		AS568-___ V750F		
	Aflas®	80	Black		A75 ___	TFE/P Tetrafluoroethylene/Propylene Rubber	
Kalrez®	-	Black		K ___ - ___	FFKM Perfluoroelastomer, Size - Compound (ex. K120-4079)		
PTFE FDA	55D*	White		TEF ___	Teflon® Solid Virgin PTFE O-ring Polytetraflouroethelyne		
Encapsulated	-	Clear/Red		TES ___	Teflon® Encapsulated Silicone		
Encapsulated	-	Clear/Black		TEV ___	Teflon® Encapsulated Viton PTFE encap FKM		
Encapsulated	-	Clear/Black		TEV ___ PFA	PFA Teflon® Encapsulated Viton (Better grade Teflon®)		
Urethane	70	Opaque		U70 ___	Polyurethane Urethane (millable gum)		
Urethane	90	Opaque		U90 ___	PU AU (ester) EU (ether)		
O-Rings (metric)	NBR	70	Black		N ___ X ___	(N1.17X007.14) C/S x ID, use decimals if needed	
	NBR	90	Black		H ___ X ___	(H4.00X025)	
	FKM	75	Black		V ___ X ___	(V2.50X068)	
	FKM	90	Black		W ___ X ___	(W7.00X236)	
	EPDM	70	Black		E ___ X ___	(E2.20X006)	
	VMQ FDA	70	Red		S ___ X ___	(S3.50x120)	
X Rings (inch)	NBR	70	Black		Q-___ N70R	X-Ring	
	FKM	70	Black		Q-___ V700W		
Square Rings (inch)	NBR	70	Black		SN70 ___	Square Rings (Lathe Cut)	
	FKM	75	Black		SV75 ___		
Back-up Rings (inch)	NBR	90	Black		N8-90-___	Contoured NBR Back-up Ring	
	FKM	90	Black		V890 ___	Contoured FKM Back-up Ring	
	PTFE	55D*	White		ST ___ S	Single Turn, Solid (Virgin PTFE) Back-up Ring	
	PTFE	55D*	White		ST ___	Single Turn, Scarf Cut (Virgin PTFE) Back-up Ring	
PTFE	55D*	White		SP ___	Spiral (Virgin PTFE) Back-up Ring		

Durometer = Hardness, Standard Scale is Shore A for Rubber.
55D* = Shore D is for Plastics (harder than Shore A).