



Piping Technology Network – Gaskets and Packing

SU2A
Gasket Codes - Manufacturers

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Vendors and merchandise designations are given to describe materials and may not include all acceptable products. Substitutions by suppliers are to be made only on approval of the local authority initiating the use of this specification.

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1. Scope

This specification designates manufacturer style numbers that meet DuPont gasket code requirements. Manufacturers are listed below in Section 2. On DuPont drawings and purchase requisitions, use the DuPont Gasket Code number only; do not use manufacturer style numbers. [U2A](#), “Gasket Codes,” should also be considered a part of any purchase order.

2. List of manufacturers

The following manufacturers are used throughout [Tables 1–5](#):

- American Biltrite
- Carbone Lorraine
- Cathay Packing & Seal
- Comdiflex
- Technetics
- Donit
- DuPont Performance Polymers
- Eagle Elastomer, Inc.
- Econosto / Hofland
- EGC Enterprise
- Flexitallic Gasket Company
- Frenzelit
- Garlock, Inc.
- Gasket Resources Inc. (GRI)
- W. L. Gore & Associates
- Graftech
- IDT/Sinyuan
- Inertech Inc. / YMT
- James Walker
- Jinma Sealing
- Kempchen
- Lamons Gasket Co.
- Leader Global Technologies (J M Clipper)
- Mosites Rubber Co.
- Novus Sealing
- Pfaudler
- SGL/Polycarbon
- Pureflex Inc.
- Tedit
- Thermodyn Corp.
- Thermoseal/Klinger
- Virginia Sealing Products VSP
- West American Rubber

3. References

American Society of Mechanical Engineers

ASME B16.5-1996	American Society of Mechanical Engineers Publication—Pipe Flanges and Flanged Fittings
ASME B16.20-1998	American Society of Mechanical Engineers Publication—Metallic Gaskets for Pipe Flanges—Ring Joint, Spiral Wounds and Jacketed
ASME B16.21-1992	American Society of Mechanical Engineers Publication—Nonmetallic



Flat Gaskets for Pipe Flanges

DuPont Engineering Guidelines

U2A	Gasket Codes
U6A	Elastomer Gasket Specification
U9A	Gasket Dimensions, Standard
U10A	Gasket Dimensions, Special
U16A	Teflon® Envelope Gasket Dimensions

® Teflon is a registered trademark of the Chemours Company.



Table 1. Manufacturers' style numbers

	DuPont sheet and cut gasket codes (use G for cut gaskets and S for gasket material in sheet form)								
	S1 / S2	S3	S4	S10	S11	S12	S13	S13F	S13G
	G1 / G2	G3	G4	G10	G11	G12	G13	G13F	G13G
Manufacturer	Style number								
American Biltrite					20M-XX-XXX				
Carbone Lorraine							1600	I980 RI /HD	I980 PI
Cathay Packing & Seal							1200	3002A	
Technetics									
Donit							SF	SL	
DuPont Performance Polymers									
Eagle Elastomer Inc.									
Econosto / Hofland									
Flexitallic							HS/LS	SR	
Frenzelit							Novaphit VS	SS/MST	
Garlock, Inc.				5240	7986	7797	3123	3125SS	
Gasket Resources, Inc							FGS95	FGL316	
Gore									
Graftech							GTB	GHR	GHW
IDT Sinyuan							3800	3885	
Inertech Inc. / YMT									
James Walker									
Jinma Sealing	FA303								
Lamons								LG-SS	
Leader Global Tech							Quadra Graph		
Mosites Rubber Co. ^a		738 Brown	70122 Red	60422	60391	60412			
Novus Sealing									
SGL/Polycarbon							B	BSSC, Hochdruck	BGFC
Pureflex									
Teadit			100R				1660	1661	
Thermodyn Corp. ^a									
Thermoseal/ Klinger							HL	SLS	
Virginia Sealing Products									
West American Rubber		30R653	70R654	40E118	60E1187	80E1186			

■ Shading indicates asbestos products.

^a Identifies genuine Viton® Licenses, preferred suppliers of sheet and gasket products made of 100% virgin genuine Chemours Viton®. The other manufacturers listed (S21/G21 through S29/G29) will also certify in writing that these style numbers are made of 100% virgin Chemours Viton®.

Note: Manufacturers' and merchandise designations are given to describe materials and may not include all acceptable products. Substitutions by suppliers are to be made only on approval by the local authority initiating the use of this specification.

® Viton is a registered trademark of the Chemours Company.

® Kalrez are registered trademarks of DuPont Performance Polymers.



Table 1. Manufacturers' style numbers (continued)

	DuPont sheet and cut gasket codes (use G for cut gaskets and S for gasket material in sheet form)									
	S13K	S13M	S13N	S13S	S13T	S13V	S13W	S14	S15	S16
	G13K	G13M	G13N	G13S	—	G13V	G13W	G14	G15	G16
Manufacture	Style number									
American Biltrite										
Carbone Lorraine							1980 SSTC			
Cathay Packing & Seal				3001A			3003A			
Technetics										
Donit				SP						
DuPont Performance Polymers										
Eagle Elastomer Inc.										
Econosto / Hofland										
Flexitallic			Flexicarb NG	ST	GT		WR	1630		
Frenzelit	825F, 925F Premium XP ^b	MST, MST-XP ^b		SSTC			SSTC, SSTC-XP ^b	Novaplan 70	Ambition	
Garlock, Inc.		3128		3125TC	Graphlock		3124	681	IFG5500	159
Gasket Resources, Inc				FGT316						
Gore										
Graftech			GTA, GTJ	GHE	GTH-K	GT-V				
IDT Sinyuan				3865						
Inertech Inc. / YMT										
James Walker										
Jinma Sealing										
Lamons				LG-TC					L430	
Leader Global Tech										
Mosites Rubber Co. ^a										
Novus Sealing										
SGL/Polycarbon		Hochdruck	Sigraflex Grade N	BTCSS	PSA		BSC			
Pureflex										
Teadit		GR1700		1663	2550/2551		1662		1122	
Thermodyn Corp. ^a										
Thermoseal/ Klinger				PSM					4430	
Virginia Sealing Products										
West American Rubber										

^a Identifies genuine Vitor® Licenses, preferred suppliers of sheet and gasket products made of 100% virgin genuine Chemours Vitor®. The other manufacturers listed (S21/G21 through S29/G29) will also certify in writing that these style numbers are made of 100% virgin Chemours Vitor®.

^b Provides improved release characteristics, if these properties are required the gasket should be ordered using manufacturers' brand name, not using gasket code.



Table 1. Manufacturers' style numbers *(continued)*

	DuPont sheet and cut gasket codes (use G for cut gaskets and S for gasket material in sheet form)										
			S19	S20	S21	S22	S23	S24	S25	S26	S27
	G17	G18	G19	G20	G21	G22	G23	G24	G25	G26	G27
Manufacturer	Style number										
American Biltrite											
Carbone Lorraine											
Cathay Packing & Seal											
Technetics											
Donit											
DuPont Performance Polymers											
Eagle Elastomer Inc.					EE-96260A	EE-96275A	EE-97359A	EE-97376A	EE-98160H	EE-98178H	EE-98461H
Econosto / Hofland											
Flexitallic											
Frenzelit											
Garlock, Inc.	Stress Saver 6800	Stress Saver 370	318	317						Stress Saver XP	
Gasket Resources, Inc											
Gore											
Graftech											
IDT Sinyuan											
Inertech Inc. / YMT											
James Walker											
Jinma Sealing											
Lamons											
Leader Global Tech											
Mosites Rubber Co. ^a			1762	1785	1046	10116-A	10125E	10307	10310	10320-C	10311
Novus Sealing											
SGL/Polycarbon											
Pureflex											
Teadit											
Thermodyn Corp. ^a					TD-6012A175	TD-7512A175	TD-6013B176	TD-7513B176	TD-6014GF177	TD-7514F177	TD-6015LT178
Thermoseal/Klinger											
Virginia Sealing Products											
West American Rubber			60K190	70K186	60F96	75F97	60F126	75F127	60F128	75F129	60F130

■ Shading indicates asbestos products.

^a Identifies genuine Viton® Licenses, preferred suppliers of sheet and gasket products made of 100% virgin genuine Chemours Viton®. The other manufacturers listed (S21/G21 through S29/G29) will also certify in writing that these style numbers are made of 100% virgin Chemours Viton®.



Table 1. Manufacturers' style numbers *(continued)*

	DuPont sheet and cut gasket codes (use G for cut gaskets and S for gasket material in sheet form)											
	S28	S29	S30	S31	S32	S34	S35	S36	S37	S38	S39	S40
	G28	G29	G30	G31	G32	G34	G35	G36	G37	G38	G39	G40
Manufacturer	Style number											
American Biltrite												
Carbone Lorraine												
Cathay Packing & Seal												
Technetics												
Donit												
DuPont Performance Polymers			4079	1050LF	3018	7075		6375				
Eagle Elastomer Inc.	EE-98476H	EE-77475H										
Econosto / Hofland												
Flexitallic												
Frenzelit												
Garlock, Inc.							9064					
Gasket Resources, Inc.									GRI-A	GRI-B	GRI-FDA	GRI-GF
Gore												
Graftech												
IDT Sinyuan												
Inertech Inc. / YMT												
James Walker												
Jinma Sealing												
Lamons												
Leader Global Tech												
Mosites Rubber Co. ^a	10282	10322					60455					
Novus Sealing												
SGL/Polycarbon												
Pureflex												
Teadit												
Thermodyn Corp. ^a	TD-7515LT178	TD-7516ETP										
Thermoseal/Klinger												
Virginia Sealing Products												
West American Rubber	75F131						60E1185					

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Table 1 Manufacturers' style numbers (continued)

	DuPont sheet and cut gasket codes (use G for cut gaskets and S for gasket material in sheet form)									
	S45	—	S48	S49A	S49B	S49F	S49H	S49J	S49K	S49M
	G45	G46	—	G49A	G49B	G49F	G49H	G49J	G49K	G49M
Manufacturer	Style number									
American Biltrite	AB365									
Carbone Lorraine										
Cathay Packing & Seal										
Technetics		Tex-O-Lon		500FG/ 9405						
Donit										
DuPont Performance Polymers ^a										
Eagle Elastomer Inc.										
Econosto / Hofland										
Flexitallic					Sigma 500		Sigma 522 ^d , 533, 534 ^b		Sigma 511	Sigma 599
Frenzelit					Novafilon 100		Novafilon 200		Novafilon 300	
Garlock, Inc.	9122		620	9405 3594	3504		3503 ^e , 3510 3511 ^b	3530	3500	3565 Envelon
Gasket Resources, Inc				9000			9200W, 9200Y	9400		
Gore										
Graftech										
IDT Sinyuan										
Inertech Inc. / YMT										
James Walker						Fluolion CaF ₂				
Jinma Sealing										
Lamons					L-104		L-110		L-100	
Leader Global Tech					2110		2120		2100	
Mosites Rubber Co. ^a	30143									
Novus Sealing					Uniflon 50		Uniflon 53		Uniflon 51	
SGL/Polycarbon										
Pureflex		Task-Line								
Teadit			3070	1510	1570		1580		1590	
Thermodyn Corp. ^a			2210							
Thermoseal/ Klinger										
Virginia Sealing Products										
West American Rubber ^a	60P985									

^a Identifies genuine Viton® Licenses, preferred suppliers of sheet and gasket products made of 100% virgin genuine Chemours Viton®. The other manufacturers listed (S21/G21 through S29/G29) will also certify in writing that these style numbers are made of 100% virgin Chemours Viton®.

^b 534 and 3511 are yellow version.

^c Designed for low stress to seal applications.

^d High compressibility version of 533.

^e Packaged and cleaned for O2 service.



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Gasket Codes - Manufacturers

Table 1. Manufacturers' style numbers (continued)

	DuPont sheet and cut gasket codes (use G for cut gaskets and S for gasket material in sheet form)											
	S49N	S49S	S50	S50B	S50C	—	—	—	—		S50I	—
	G49N	G49S	G50	G50B	—	G50D	G50E	G50F	G50G	G50H	G50I	G51
Manufacturer	Style number											
American Biltrite												
Carbone Lorraine												
Cathay Packing & Seal												
Technetics			600A/ 8764									
Donit												
DuPont Performance Polymers ^a												
Eagle Elastomer Inc.												
Econosto / Hofland												
Flexitallic												
Frenzelit												
Garlock, Inc.	3591		8764	3540 3545								3535
Gasket Resources, Inc. ^a												
Gore				GR UPG-800 Produra	Gasket Tape		500-steel 1000-glass	UPG-800		UPG-800		Joint Sealant, Produra, DF
Graftech												
IDT Sinyuan												
Inertech Inc. / YMT				SQ-S, SQ-S "V" LTC OPRA ^c	UHF - Gasket Tape	EZ-Seal	Isotropic Gasket Tape	LTC ^d	PITA ^d	OPRA ^c		UHF- Joint Sealant
Jinma Sealing												
James Walker												
Lamons												
Leader Global Tech												
Mosites Rubber Co. ^a												
Novus Sealing												
SGL/Polycarbon												
Pureflex												
Teadit			1500	Quimflex	24BB		24BI					24B
Thermodyn Corp. ^a												
Thermoseal/ Klinger		TopChem 2000		Soft-chem								Sealex
Virginia Sealing Products								LTC ^d	PITA ^d	OPRA ^c	Load Lock	
West American Rubber ^a												

^a Identifies genuine Viton® Licenses, preferred suppliers of sheet and gasket products made of 100% virgin genuine Chemours Viton®. The other manufacturers listed (S21/G21 through S29/G29) will also certify in writing that these style numbers are made of 100% virgin Chemours Viton®.

^b C-4401 available in white.

^c For full-face flanges only

^d 1/8" minimum thickness



SU2A Gasket Codes - Manufacturers

Table 1. Manufacturers' style numbers (continued)

Manufacturer	DuPont sheet and cut gasket codes (use G for cut gaskets and S for gasket material in sheet form)												
	S70	S71	S72	S73	S80	S81	S82	S83	S84	S85	S86	S87	S88
	G70	G71	G72	G73	G80	G81	G82	G83	G84	G85	G86	G87	G88
American Biltrite													
Carbone Lorraine													
Cathay Packing & Seal													
Technetics													
Donit						BA-Unit							
DuPont Performance Polymers ^a													
Eagle Elastomer Inc.													
Econosto / Hofland													
Flexitallic	Thermi-culite 815	Thermi-culite 715			SF2420	SF2401			SF5000				
Frenzelit			NovaMica Thermex		Novaform 220S	Novapress 280/Basic			Novapress Multi-II			Multi-EG	
Garlock, Inc.				Therma Pur	3200 / 3400	3000 / 3001 / 2500	3300	3700	G9900	9800	G9900		
Gasket Resources, Inc ^a					Durlon 8600	Durlon 7900 / 8500	Durlon 8700		Durlon 8300				
Gore													
Graftech													
IDT Sinyuan													
Inertech Inc. / YMT													
Jinma Sealing						JM-S315							
James Walker													
Lamons					L640W	L441	L540		L540				
Leader Global Tech					961	NA59 / NA60	976	986A					
Mosites Rubber Co. ^a													
Novus Sealing						30			10				
SGL/Polycarbon													
Pureflex													
Teadit			TerMica XHR-M		1035 1080	NA 1081 NA1001 NA 1005	1076		1100		1100	1100M	
Thermodyn Corp. ^a													
TherMOseal/ Klinger					C-6400	C-4400 4401 ^b 400 MAX	C-5400	C-7400	C-4500		C-4433		Quantum
Virginia Sealing Products													
West American Rubber ^a													

^a Identifies genuine Viton® Licenses, preferred suppliers of sheet and gasket products made of 100% virgin genuine Chemours Viton®. The other manufacturers listed (S21/G21 through S29/G29) will also certify in writing that these style numbers are made of 100% virgin Chemours Viton®.

^b C-4401 available in white.

^c For full-face flanges only

^d 1/8" minimum thickness



SU2A Gasket Codes - Manufacturers

Table 2. Teflon® envelope gasket codes manufacturers' styles

Manufacturer	G52	G53	G54	G55	G58	G59	G60AS	G60AM	G61AS
	Style number								
Type					Square (milled)	V (slit)	V (slit)	Square (milled)	V (slit)
Pfudler ^a							NS (1-12)	CH (1-1/2-12)	NS (1-20)
Technetics	7986S	7986V	7986S	7986V	6305M	6302V	6302V	6302S	6302V
Gore									

^a Pfudler uses proprietary i.d. and o.d. dimensions.

Manufacturer	G61AR	G61B	G61CV	G61CR	G61D	G61U	G61BN	G61ES
	Style number							
Type	V (rolled)	Square (milled)	V (slit)	V (rolled)	Square (milled)	One piece 100% ePTFE gasket, 1/4" thick with fully densified ID and outer layers	Bull nose	Electrostatic charge reduction
Pfudler ^a	NS (24-84)	CH (1-1/2-84)	ES (1-20)	ES (24-96)	PS (1-1/2-48)		BN	AS
Technetics	6302FS	6302S	6302 VGR	6302 FSGR	6302 SGR		BN ^b	
Gore						UPG		

^a Pfudler uses proprietary i.d. and o.d. dimensions.

^b Exception – outer insert to be 2000LR equivalent.



Table 3. Spiral-wound gasket codes manufacturers' styles ^{a,b,c,d,e}

Manufacturer	G6XXXZX ^d (no inner ring)	G7XXX ^d	G6XXXXX (inner ring)	G6XXXZA (anti-buckling)	G6XXXXXL (low stress)
Aiflon Sealing Materials	6000 OR	6000	6000 IOR		
Cathay Packing & Seal	400 SWC	4000 SW	4000 SWCI		
Comdiflex	SPV2	SPV1	SPV2J		SPV2J-B.T.
Flexitallic	CG, Change ^h	R-1, R-3, R-4, Change ^h	CGI, LSI		LSI
Lamons	WR	W	WRI	WRAB	WR-LC, WRI-LC
Garlock	RW	SW	RWI ^g	Edge	RW ^f , RWI ^f , Edge ^f
Gasket Resources Inc.	DR	D	DRI		
IDT Sinyuan	SD20	SD01	SD10	SD20	SD10
Leader Global Tech	LG-13	LG-11	LG-13-IR		
Klinger/TherMOSeal	CR	R	CRI		
Novus Sealing		RF1	SG-IR	SG	
Teadit	913	911	913M	913-QS	913/913M
VSP Technologies		WO		AB-326	AB-326

- ^a DuPont code numbers must be used to order gaskets for which code gaskets are specified. Include [U2A](#) when specifying spiral-wound gaskets. G6XXX gasket dimensions are in accordance with ASME B16.20. G7XXX gasket dimensions are in accordance with ASME B16.5 and manufacturing tolerances.
- ^b Gaskets will be furnished color-coded in accordance with ASME B16.20 unless otherwise specified.
- ^c A metallic inner ring is standard on all ASME B16.20 gaskets regardless of filler.
- ^d All filler and winding materials per [U2A](#), Figure 1.
- ^e The metal tapes in all common alloys are color-coded. The color code is visible on the i.d. of the gasket.
- ^f Low stress only available with graphite filler on 150# and 300# standard flanges.
- ^g Tandem seal available with Teflon® lined profiled inner ring, dimensions of inner ring need to be specified to match pipe schedule.
- ^h Change gasket is a low stress, more resilient, hybrid spiral wound gasket intended for cyclic conditions. The Change is faced like a Kammprofile and filled like a spiral wound. Facing and filler are the same material. The Change gasket is specified by adding the suffix R to the gasket specification (see Figure 1 in [U2A](#))

Table 4. Graphite laminate gasket code manufacturers' styles

Manufacturer	G9X1G6 ^b	Maximum temperature ^{a, d}	
		°C	°F
Leader Global Tech	Elastograph	454	850
Garlock	Graphonic, GET ^c	454	850
Lamons	CMG	454	850
Novus Sealing	CMG	454	850
Teadit	Metal Best	454	850
Durabla	CFG	454	850

- ^a Higher temperature may be possible in non-oxidizing conditions.
- ^b Refer to [U2A](#), Figure 2 for other gasket combinations.
- ^c GET gasket has Teflon® inner layer, G9X1S6
- ^d For inner reinforcements not made of stainless steel, the gasket must be marked in a way that defines the metal.

Table 5. Teflon® laminate gasket code manufacturers' styles

Manufacturer	G9X1T6	Maximum temperature	
		°C	°F
Cathay Packing & Seal	7020PT	232	450
Garlock	Tephonic	232	450
Inertech	Intermet	232	450
Lamons	CMG-PTFE		
Teadit	905-PTFE	232	450
Virginia Sealing Products	Cycle Tight	232	450

Table 6. Kammprofile gasket manufacturers ^{b, a}

Manufacturer	G9X2G6 ^c
Cathay Packing & Seal	7010-Kammprofile
Flexitallic	Flexpro, CPR ^d
Garlock	Kammprofile
Klinger / Thermoseal	Kammprofile
James Walker	Kammprofile
Econosto / Hofland	Kammprofile
IDT Sinyuan	Kammprofile
Kempchen	Kammprofile
Lamons	"Kammpro"
Novus Sealing	Kammprofile
Teadit	Kammprofile

^a Temperature is a function of outer layer.

^b These gaskets may be refaced after use. This has been shown to be very economical in sizes 24" and above in all material combinations. Sites that elect to reface gaskets should maintain a spare gasket for each size being refaced to avoid extending shutdowns while gaskets are refaced. For refacing suppliers, please contact the DuET Process Equipment Group.

^c Refer to [U2A](#) Figure 2 for other gasket combinations.

^d The CPR gasket is a Kammprofile with G50B inner ring for sealing damaged flanges or to prevent corrosion on new flanges. The inner diameter of the inner ring needs to be specified to match flange inner diameter.