

Flat Belts For the Food Industry

- For over 40 years Volta has been manufacturing Flat Food Belting from highest quality Thermoplastic Elastomers (TPE) material providing unique homogeneous characteristics. Standard Belt Width = 1524mm /60"
- Meet with international hygiene standards for quality, reliability and food contact. FDA/USDA Approved. Declaration of Conformity in compliance with EU Regulations No.: 10/2011, 1935/2004 and Directive 2002/72/EC. Suited to HACCP standards.
- A variety of fully extruded textured tops are offered and belt underside is available in smooth, embossed or reinforced types.
- The smooth base belts have cut and abrasion resistant surfaces, eliminating any crevices where bacteria may harbor. Their non-absorbent nature makes cleaning simple, increasing hygiene levels.
- > Volta's environment friendly belts allow drastic reduction in water usage and convert cleaning time to precious production time.
- These belts are also easy to install on-site and act as a strong base for quality thermo welded specialized fabrications, providing solutions to our customers' special design.
- > Volta products are the ideal choice where hygiene and conveying efficiency are vital.

	Homogeneous Belts											
Product & Color		Shore Hardness	Temperature Range	Coefficient of Friction on Steel	Thickness	Minimum Pulley Diameter		Pull Force: Pretension of 1%		Approvals		
				(Bottom)	mm	mm	Inch	kg/cm	lbs/in			
					1.5	50	2	1.50	8.40			
			-20° C to 75° C		2	70	23/4	2	11.20	EDA/		
FHB		59D	-5° F to 170° F	0.28	3	90	31/2	3	16.80	FDA/ USDA/ EU		
			-5 1 (0 1/0 1		4	110	43/8	4	22.40			
					5	150	57/8	5	28.00			
					1	34	13/8	1	5.60			
					1.5	50	2	1.50	8.40			
			-20° C to 75° C -5° F to 170° F	0.28	2	70	23/4	2	11.20	FDA/ - USDA/ EU		
FHW		59D			2.5	80	31/8	2.50	14.00			
					3	90	31/2	3	16.80			
					4	110	43/8	4	22.40	_		
					5	150	57/8	5	28.00			
	95A/		-30° C to 60° C -20° F to 140° F	0.36	1.6	21	13/16	0.96	5.37	FDA/		
		95A/46D			2	30	13/16	1.20	6.80			
FMB					2.5	35	13/8	1.50	8.40			
					3	40	15/8	1.80	10.10	USDA/ EU		
					4	60	23/8	2.40	13.50			
					5	80	31/8	3	16.90			
			-30° C to 60° C		2	30	13/16	1.14	6.40	FDA/		
FW		95A/46D	-20° F to 140° F	0.36	3	40	15/8	1.70	9.60	USDA/EU		
					4	60	23/8	2.28	12.80			
					1.6	21	13/16	0.96	5.37			
			20% (+		2	30	13/16	1.20	6.80			
FMW		95A/46D	-30° C to 60° C	0.36	2.5	35	13/8	1.50	8.40	FDA/ USDA/EU		
			-20° F to 140° F		3	40	15/8	1.80	10.10			
					4	60	23/8	2.40	13.50			
					5	80	31/8	3	16.90			

Flat Belt Top Surfaces



Smooth



ITO -50 Impression Top Oval



ITR -10 Impression Top Rough



IRT Impression Roof Top



SP Spikes



CT Crescent Top



MC Mini Cleats

Flat Belt Bottom Surfaces







Embossed



Reinforced



Reinforced Covered Bottom

			Homogen	eous Embossed	Bottom Belt	s				
Product & Color		Shore Hardness	Temperature Range	Coefficient of Friction on Steel	Thickness	Minimum Pulley Diameter		Pull Force: Pretension of 1%		Approvals
				(Bottom)	mm	mm	Inch	kg/cm	lbs/in	
FEHB		95D	-20° C to 75° C	0.20	3	90	31/2	3	16.80	FDA/
FEHW		930	-5° F to 170° F	0.20	4	110	43/8	4	22.40	USDA/ EU
			-40° C to 50° C		1.6	10	3/8	0.32	1.79	
FELB		80A	-40° F to 120° F	0.45	2	12	1/2	0.40	2.24	FDA/ EU
			-40 1 10 120 1		3	18	13/16	0.60	3.36	
					1.6	10	3/8	0.32	1.79	
FELW		80A	-40° C to 50° C	0.45	2	12	1/2	0.40	2.24	FDA/ EU
FELVV		OUA	-40° F to 120° F	0.43	2.5	15	9/16	0.50	2.80	FDA/ EU
					3	20	13/16	0.60	3.36	1
					1.6	24	15/16	0.64	3.62	FDA/ - USDA/ EU
			-30° C to 60° C -20° F to 140° F	0.25	2	30	13/16	0.80	4.50	
FEMB	B 95A	95A/46D			2.5	35	13/8	1	5.60	
					3	40	15/8	1.20	6.80	
					4	60	23/8	1.60	9.20	
FEMW	95A/46D		-30° C to 60° C -20° F to 140° F	0.25	2	30	13/16	0.80	4.50	FDA/ USDA/ EU
					2.5	35	13/8	1	5.60	
		95A/46D			3	40	15/8	1.20	6.80	
					4	60	23/8	1.60	9.20	
					5	80	31/8	2.10	11.70	
	95A/46D	2006 1 600 6		2	30	13/16	0.76	4.20		
FEW		95A/46D	-30°C to 60° C -20° F to 140° F	0.25	3	40	15/8	1.12	6.30	FDA/ - USDA/ EU
					4	60	23/8	1.50	8.40	
				Reinforced Bel	ts					
ED1 2		00.1	-40° C to 50° C	0.00	1.6	8	5/16	4	22	EDA/ELL
FRLB		80A	-40° F to 120° F	0.20	2	10	3/8	5	28	FDA/ EU
					1.6	8	5/16	4	22	
		00:	-40° C to 50° C	0.55	2	10	3/8	5	28	ED 4 / E
FRLW		80A	-40° F to 120° F	0.20	2.5	15	9/16	6.20	34.50	FDA/ EU
					3	18	11/16	7.50	42	
ED115		054/465	-30° C to 60° C	0.00	2	25	1	6	33.50	FDA/
FRMB		95A/46D	-20° F to 140° F	0.20	3	35	13/8	7	39	USDA/ EU
					2	25	1	6	33.50	
FRMW		95A/46D	-30° C to 60° C -20° F to 140° F	0.20	2.5	30	13/16	6.50	36.20	FDA/ USDA/EU
I IVIAIAA	937/400			0.20	3	35	13/8	7	39	

				Ir	npression To	p Belts					
	Product & Color				Coefficient of Friction on Steel	Thickness	Minimum Pulley Diameter		Pull Force: Pretension of 1%		Approvals
					(Bottom)	mm	mm	Inch	kg/cm	lbs/in	
				-40° C to 50° C		2	12	1/2	0.32	1.87	
	FELB - ITO50		80A	-40° F to 120° F	0.45	2.5	15	9/16	0.40	2.32	FDA/ EU
				-40 F to 120 F		3	18	11/16	0.50	2.80	
				-40° C to 50° C		2	12	1/2	0.32	1.87	
	FELW - ITO50		80A	-40° F to 120° F	0.45	2.5	15	9/16	0.40	2.32	FDA/ EU
		1				3	18	11/16	0.50	2.80	
50	FMB - ITO50		95A/46D	-30° C to 60° C -20° F to 140° F	0.36	2.5	35	13/8	1.50	8.40	FDA/ USDA/ EU
ITO 5				-30° C to 60° C		2	30	13/16	0.60	3.36	- FDA/
=	FEMB - ITO50		95A/46D	-20° F to 140° F	0.25	2.5	35	13/8	0.74	4.20	FDA/ USDA/EU
				-20 1 (0 140 1		3	40	15/8	0.94	5.26	
				-30° C to 60° C		2	30	13/16	0.60	3.36	FDA/
	FEMW - ITO50		95A/46D	-20° F to 140° F	0.25	2.5	35	13/8	0.74	4.20	USDA/ EU
				20 1 10 140 1		3	40	15/8	0.94	5.26	1 ODDAV LO
				-20° C to 75° C		2	70	23/4	1.50		FDA/ USDA/EU
	FHW - ITO50	' - ITO50	59D	-5° F to 170° F	0.28	2.5	80	31/8	2	11.20	
						3	90	31/2	2.50	14	
ITR10	FELW - ITR10		80A	-40° C to 50° C	0.45	3	18	11/16	0.50	2.80	- FDA/EU
H	FELVV - IIKIO		OUA	-40° F to 120° F	0.43	4	25	1	0.70	3.92	
	FELB - IRT		80A	-40° C to 50° C -40° F to 120° F	0.45	4	25	1	0.60	3.40	FDA/ EU
IRT	FEMB - IRT		95A/46D	-30° C to 60° C -20° F to 140° F	0.25	3.5	40	15/8	1	5.60	FDA/
=	TENID III				0.23	4	55	23/16	1.20	6.80	USDA/EU
	FMB - IRT		95A/46D	-30° C to 60° C	0.36	3.5	52.5	21/8	2.10	11.80	FDA/
			J 507 V 102	-20° F to 140° F	0.50	4	60	23/8	2.40	13.50	USDA/ EU
				-40° C to 50° C -40° F to 120° F	0.45	2	20	13/16	0.40	2.24	FDA/ EU
	FELB - SP		80A			2.5	24	15/16	0.50	2.80	
					3	28	11/8	0.60	3.36	<u> </u>	
es*			95A/46D	-30° C to 60° C -20° F to 140° F	0.25	2	40	15/8	0.80	4.50	FDA/
Spikes*	FEMB - SP					2.5	45	13/4	1 20	5.60	USDA/ EU
01						3	50	2	1.20	6.80	
	EENAVA/ CD		051/465	-30° C to 60° C	0.35	2	40	15/8	0.80	4.50	FDA/
	FEMW - SP		95A/46D	-20° F to 140° F	0.25	2.5	45 50	1 ³ / ₄	1.20	5.60 6.80	USDA/EU
do_	FELB - CT		80A	-40° C to 50° C	0.45	3	35	13/8	0.60	3.36	FDA/ EU
nt	EMP CT			-40° F to 120° F	0.40	3	60	23/	1 00	10.12	
Crescent Top	FMB - CT FEMB - CT		95A/46D	-30° C to 60° C	0.40	3	60	23/8	1.80 1.20	10.12 6.75	FDA/
Cre	FEMW - CT		70FV 40D	-20° F to 140° F	0.25	2.5	50	23/8	1.20	5.60	USDA/EU
	FLIVIVV - CT			-40° C to 50° C			20			3.00	
ats	FELB - MC		80A	-40° F to 120° F	0.45	2.5	40	15/8	0.50	2.80	FDA/ EU
Cle	FELW - MC		80A	-40° C to 50° C	0.45	2.5	40	15/8	0.50	2.80	FDA/ EU
Mini Cleats				-40° F to 120° F		3	50	15/8	0.60	3.40	
2	FEMB - MC		95A/46D	-30° C to 60°C -20° F to 140° F	0.25	3	70	23/4	1.20	6.80	FDA/ USDA/ EU

Notes: Spikes - *Height of Spikes above base belt is 2.8 mm.

Reinforced Impression Top Belts												
Product & Color		Shore Hardness	Temperature Range	Coefficient of Friction on Steel	Thickness	Minimum Pulley Diameter		Pull Force: Pretension of 1%		Approvals		
				(Bottom)	mm	mm	Inch	kg/cm	lbs/in			
FRLB - ITO50		80A	-40°C to 50°C / -40°F to 120°F	0.20	2.5	15	9/16	3.20	18	FDA/ EU		
FRLW - ITO50	904	80A	-40° C to 50° C	0.20	2.5	15	9/16	3.20	18	FDA/ EU		
FRLW - 11050		OUA	-40° F to 120° F		3	18	11/16	3.48	21.60			
FRMB - ITO50		95A/46D	-30° C to 60° C	0.20	2.5	32	11/4	4.10	24	FDA/		
FRIMIB - 11050			-20° F to 140° F		3	36	17/16	4.30	25.20	USDA/EU		
FRMW - ITO50		054/460	-30° C to 60° C	0.20	2.5	32	11/4	4.10	24	FDA/		
	95A/46D		-20° F to 140° F	0.20	3	36	17/16	4.30	25.20	USDA/EU		
FRLW - ITR10		80A	-40°C to 50°C / -40°F to 120°F	0.20	4	30	1	3.40	19	FDA/ EU		

■ Covered Bottom Flat Belts

Ideal for long runs in the food industry where hygiene is a priority and reinforcement is necessary. The fabric reinforcement is thermally coated with a thin layer of Volta TPE to entirely seal the fabric preventing contamination from liquid penetration and avoiding delamination. In addition, edges can be thermo sealed to completely prevent fraying.



of homogeneous Volta material

Covered Bottom/ Covered Bottom Impression Top Belts											
Product & Color	Shore Hardness	Temperature Range	Coefficient of Friction on Steel	Thickness	Minimum Pulley Diameter		Pull Force: Pretension of 1%		Approvals		
			(Bottom)	mm	mm	Inch	kg/cm	lbs/in			
FRLB - CEB - B	80A	-40° C to 50° C	0.30	2	19	3/4	2.20	12.40	EDA/EII		
FRLD - CED - D	OUA	-40° F to 120° F	0.30	3	30	11/4	2.80	15.60	FDA/EU		
FRLW - CEB - B	80A	-40° C to 50° C	0.30	2	19	3/4	2.20	12.40	FDA/EU		
FRLW - CED - B	OUA	-40° F to 120° F	0.30	3	30	11/4	2.80	15.60			
FRLW - CEB - C	80A	-40° C to 50° C	0.20	2	19	3/4	2.20	12.40	FDA/ EU		
FRLW - CED - C	OUA	-40° F to 120° F	0.20	3	30	11/4	2.80	15.60			
FRLW - CB	80A	-40°C to 50°C / -40°F to 120°F	0.45	2	19	3/4	3.10	17.40	FDA/ EU		
FRMB - CEB - B			0.30	3	40	15/8	6.80	38	FDA/ USDA/ EU		
FRMB - CEB - C	95A/46D	-30° C to 60° C	0.30	3	40	15/8	6.80	38	FDA/ EU		
FRMB - CB		-20° F to 140° F	0.45	3	40	15/8	7.20	40	FDA/ USDA/ EU		
FRMW - CEB - C			0.30	3	40	15/8	6.80	38	FDA/ USDA/ EU		
FRLB - CEB - B - ITO50	80A	-40°C to 50°C / -40°F to 120°F	0.30	2.5	15	9/16	3.50	18	FDA/ EU		

Belt Coating Materials for the Food Industry											
Products		GIB	MIB	WIB	FEIB	FEMB-SP	FEMW-SP	FELB-SP			
Illustration											
Description		Super Grip	Multi Grip	Wood Grip	High Grip	Spikes	Spikes	Spikes			
Hardness		62A	62A	62A	62A	95A	95A	85A			
C: ()	Width*	50	50	70	1524	1524	1524	1524			
Size (mm)	Thickness	4	6	4	2/ 2.5/ 3/ 4	2/ 2.5/ 3**	2/ 2.5/ 3**	2/ 2.5/ 3**			
CoF (Steel)		0.98	1.08	1.05	0.95	0.25 0.25		0.45			
Temperature	e Range		-20° C to) +40° C	-30° C to	-40° C to +50° C					

Notes: Width* - Maximum available width. **Height of Spikes above base belt is 2.8 mm.

Endless Making Techniques

Volta provides you with a choice of tools especially designed to ensure high quality heat welded endless making of the full range of Flat belts. Our tools have a lightweight design which makes each tool compact, rugged and easy to use in the field and workshop. When using Volta tools only electrical power is needed and no water cooling or air pressure is required.



FBW - Butt Welding Tool

The FBW System was created to butt-weld flat belts making them endless. The FBW Welding System should be used with suitable adaptors available for special textured top flat belts



➡ FT - Electrode Welding Kit

The FT Welding System is a tool for electrode welded endless making highly suitable for Volta flat belts. The FT Welding System uses a router to cut the bevel on the belt edges and to trim the weld on completion. The weld is carried out by using a Leister Hot Air Gun and Volta electrodes.

■ Volta Lace Systems

The Volta Lace is a device that allows you to easily open the belt for cleaning or servicing of the conveyor. Our lace can also be used in applications where metal detectors are required and we can provide you with a polyester hinge pin upon request. Volta lace is compatible with Volta 'M' Family Flat Belts of 2.5 to 5 mm thickness. All Volta flat belt material is easy to clean without removing from conveyor and therefore we only recommend lace when absolutely necessary.



We are committed to providing a complete package focusing on servicing our customers all the way, up until the belts are safely installed and the conveyor is running smoothly.

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