



OLTA

The Next Step in Belting

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 nonabsorbent 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		
FHB		59D	-5° F to 170° F	0.28	3	90	31/2	3	16.80	USDA/EU	
			51101701		4	110	4 ³ / ₈	4	22.40		
					5	150	5 ⁷ /8	5	28.00		
					1	34	13/8	1	5.60		
					1.5	50	2	1.50	8.40		
			-20° C to 75° C		2	70	23/4	2	11.20	- FDA/ USDA/EU	
FHW		59D	-5° F to 170° F	0.28	2.5	80	31/8	2.50	14.00		
			5 1 10 17 0 1		3	90	31/2	3	16.80	-	
					4	110	4 ³ / ₈	4	22.40		
					5	150	57/8	5	28.00		
					1.6	21	¹³ / ₁₆	0.96	5.37		
					2	30	1 ³ / ₁₆	1.20	6.80		
FMB		95A/46D	-30° C to 60° C	0.36	2.5	35	13/8	1.50	8.40		
			-20° F to 140° F		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		
FW		95A/46D	-30° C to 60° C	0.26	2	30 40	1 ³ / ₁₆	1.14	6.40	FDA/	
FVV		95A/40D	-20° F to 140° F	0.36	4	40 60	15/8 23/8	2.28	9.60		
					4	21	2 ³ / ₈	0.96	12.80 5.37		
					2	30	¹³ / ₁₆	1.20	6.80		
			-30° C to 60° C		2.5	35	1 ⁻⁹ 16 1 ⁻³ / ₈	1.20	8.40		
FMW		95A/46D	-20° F to 140° F	0.36	3	40	15/8	1.80	10.10		
			-20° F to 140° F		4	60	23/8	2.40	13.50		
					5	80	2 ⁻⁷ 8 3 ¹ /8	3	16.90	-	
						00	J.18		10.90		

Flat Belt Top Surfaces



ITO -50 Impression Top Oval



IRT

Impression Roof Top







Flat Belt Bottom Surfaces





Reinforced



Homogeneous Embossed Bottom Belts Pull Force: Shore Temperature Coefficient Thickness Minimum Approvals Pulley Hardness of Friction Pretension Range **Product & Color** on Steel Diameter of 1% (Bottom) kg/cm lbs/in mm mm Inch -20° C to 75° C **FEHB** 90 3 31/2 3 16.80 FDA/ 95D 0.20 USDA/ EU 4 FEHW -5° F to 170° F 4 110 $4^{3}/_{8}$ 22.40 1.6 10 3/8 0.32 1.79 -40° C to 50° C 2 12 FELB 80A 0.45 1/2 0.40 2.24 FDA/ EU -40° F to 120° F 3 18 13/16 0.60 3.36 1.6 10 3/8 0.32 1.79 -40° C to 50° C 2 12 1/2 0.40 2.24 FELW 80A 0.45 FDA/ EU -40° F to 120° F 2.5 15 9/16 0.50 2.80 3 20 ¹³/₁₆ 0.60 3.36 15/16 24 0.64 1.6 3.62 2 30 13/16 0.80 4.50 -30° C to 60° C FDA/ FEMB 95A/46D 0.25 2.5 35 5.60 $1^{3}/_{8}$ 1 USDA/ EU -20° F to 140° F 3 40 15/8 1.20 6.80 4 60 23/8 1.60 9.20 2 30 13/16 0.80 4.50 5.60 2.5 35 $1^{3}/_{8}$ 1 -30° C to 60° C FDA/ 0.25 3 1.20 **FEMW** 95A/46D 40 $15/_{8}$ 6.80 USDA/ EU -20° F to 140° F 9.20 4 60 $2^{3}/_{8}$ 1.60 5 2.10 11.70 80 31/8 2 30 4.20 $1^{3}/_{16}$ 0.76 -30°C to 60° C FDA/ FEW 95A/46D 0.25 3 40 $15/_{8}$ 1.12 6.30 USDA/ EU -20° F to 140° F 4 60 $2^{3}/_{8}$ 1.50 8.40 **Reinforced Belts** -40° C to 50° C 1.6 8 5/16 4 22 FRLB 80A 0.20 FDA/ EU -40° F to 120° F 2 10 3/8 5 28 8 1.6 5/16 4 22 5 -40° C to 50° C 2 10 3/8 28 FDA/ EU FRLW 80A 0.20 -40° F to 120° F 2.5 15 6.20 34.50 9/₁₆ 3 18 ¹¹/₁₆ 7.50 42 -30° C to 60° C 2 25 1 6 33.50 FDA/ FRMB 95A/46D 0.20 USDA/ EU 3 35 7 39 -20° F to 140° F $1^{3}/_{8}$ 2 25 1 6 33.50 -30° C to 60° C FDA/ FRMW 95A/46D 0.20 2.5 30 13/16 6.50 36.20 USDA/ EU -20° F to 140° F 3 35 13/8 7 39

			Ir	npression Top	o Belts						
Product & Color		Shore Hardness	Temperature Range	Coefficient of Friction on Steel	Thickness	Pu	lley	Prete	nsion	Approvals	
				(Bottom)	mm	mm	Inch	kg/cm	lbs/in		
			-40° C to 50° C	0.45	2	12	1/2	0.32	1.87		
FELB - ITO50		80A			2.5	15	9/ ₁₆	0.40	2.32	FDA/ EU	
			-40 1 10 120 1		3	18	¹¹ / ₁₆	0.50	2.80		
			-40° C to 50° C		2	12	1/2	0.32	1.87		
FELW - ITO50		80A		0.45	2.5	15	9/ ₁₆	0.40	2.32	FDA/ EU	
					3	18	11/16	0.50	2.80		
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	
			30° C to 60° C		2	30	1³/ ₁₆	0.60	3.36		
FEMB - ITO50		95A/46D		0.25	2.5	35	13/8	0.74	4.20	FDA/ USDA/ EU	
			-20 F to 140 F		3	40	15/8	0.94	5.26	000011 20	
			-30° C to 60° C	0.25	2	30	1 ³ / ₁₆	0.60	3.36		
FEMW - ITO50		95A/46D			2.5	35	13/8	0.74	4.20	FDA/ USDA/ EU	
			-20 1 10 140 1		3	40	15/ ₈	0.94	5.26		
FHW - ITO50			-20° C to 75° C		2	70	23/4	1.50 8.40			
	50	59D	-5° F to 170° F	0.28	2.5	80	31/8	2	11.20	FDA/ USDA/ EU	
					3	90	31/2	2.50	14		
FELW - ITR10		004	-40° C to 50° C -40° F to 120° F	0.45	3	18	¹¹ / ₁₆	0.50	2.80	- FDA/ EU	
		80A			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	
		95A/46D	-30° C to 60° C	0.25	3.5	40	15/8	1	5.60	FDA/ USDA/ EU	
			-20° F to 140° F	0.23	4	55	2 ³ / ₁₆	1.20	6.80		
		954/46D	-30° C to 60° C	036	3.5	52.5	21/8	2.10	11.80	FDA/	
		937(40D	-20° F to 140° F	0.30	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	1 ¹ / ₈	0.60	3.36		
	FEMB - SP	EMB - SP	95A/46D	-30° C to 60° C	0.25		40	15/8	0.80	4.50	FDA/ USDA/ EU
FEMB - SP								13/4	1	5.60	
					3	50	2	1.20	6.80		
			-30° C to 60° C			40	15/8			FDA/	
FEMW - SP		95A/46D	-20° F to 140° F	0.25				1		USDA/EU	
					3	50	2	1.20	6.80		
FELB - CT		80A	-40° C to 50° C -40° F to 120° F	0.45	3	35	1³/ ₈	0.60	3.36	FDA/ EU	
FMB - CT			-30° C to 60° C	0.40	3	60	2³/8	1.80	10.12	FDA/ USDA/EU	
FEMB - CT		95A/46D		0.25	3	60	2³/ ₈	1.20	6.75		
FEMW - CT			20 1 10 140 1	0.23	2.5	50	2	1	5.60		
FELB - MC		80A	-40° C to 50° C -40° F to 120° F	0.45	2.5	40	15/ ₈	0.50	2.80	FDA/ EU	
		004	-40° C to 50° C	0.45	2.5	40	15/8	0.50	2.80		
FELW - MC		80A	-40° F to 120° F	0.45	3	50	15/8	0.60	3.40	FDA/ EU	
		1	-30° C to 60°C	1					6.80	FDA/	
	& Color FELB - ITO50 FELW - ITO50 FEMB - ITO50 FEMW - ITO50 FEMW - ITO50 FELW - ITO50 FELB - IRT FELB - IRT FEMB - IRT FEMB - IRT FEMB - SP FELB - SP FELB - SP FEMB - SP I FEMW - SP I FEMW - SP I FEMB - CT FMB - CT FEMB - CT FEMB - CT	& Color FELB - ITOSO FELW - ITOSO FEMB - ITOSO FEMW - ITOSO FELW - ITOSO FELW - ITOSO FELB - IRT FELB - SP FELB - CT FEMW - SP FELB - CT FEMW - CT FELB - MC FELB	Product & ColorHardnessFELB - ITO50380AFELW - ITO50395A/46DFEMB - ITO50395A/46DFEMW - ITO5033FELW - ITO5033FELB - ITT33FELB - ITT33FELB - SP33FELB - SP33FELB - SP33FELB - CT43FELB - CT33FELB - CT33	Product & ColorHardnessTemperature RangeFELB - ITO5080A-40° C to 50° C -40° F to 120° FFELW - ITO50980A-40° C to 50° C -40° F to 120° FFMB - ITO50995A/46D-30° C to 60° C -20° F to 140° FFEMW - ITO50995A/46D-30° C to 60° C -20° F to 140° FFHW - ITO50995A/46D-30° C to 60° C -20° F to 140° FFHW - ITO50995A/46D-30° C to 60° C -20° F to 140° FFELW - ITR1080A-40° C to 50° C -30° C to 60° C -20° F to 120° FFELB - IRT80A-40° C to 50° C -40° F to 120° FFEMB - IRT95A/46D-30° C to 60° C -20° F to 140° FFEMB - IRT95A/46D-30° C to 60° C -20° F to 140° FFEMB - IRT95A/46D-30° C to 60° C -20° F to 140° FFEMB - SP95A/46D-30° C to 60° C -20° F to 140° FFEMB - SP95A/46D-30° C to 60° C -20° F to 140° FFEMB - SP95A/46D-30° C to 60° C -20° F to 140° FFEMB - SP95A/46D-30° C to 60° C -20° F to 140° FFEMB - CT95A/46D-30° C to 60° C -20° F to 140° FFEMB - CT95A/46D-30° C to 60° C -20° F to 140° FFEMB - CT95A/46D-30° C to 60° C -20° F to 140° FFEMB - CT95A/46D-30° C to 60° C -20° F to 140° FFEMB - CT95A/46D-30° C to 60° C -20° F to 140° FFEMB - CT95A/46D-30° C to 60° C -20° F to 140° FFEMB - CT95A/	Product & ColorHandnessFemperature RangeCoefficient of Friction obsteelFELB - ITOSO80A 40° C to 50° C -40° F to 120° F0.45FELW - ITOSO80A 40° C to 50° C -40° F to 120° F0.45FMB - ITOSO95A/46D -30° C to 60° C -20° F to 140° F0.36FEMB - ITOSO95A/46D -30° C to 60° C -20° F to 140° F0.25FEMW - ITOSO95A/46D -30° C to 60° C -20° F to 140° F0.26FELW - ITROSO -30° C to 60° C -20° F to 140° F0.25FELW - ITROSO </th <th>Product & Color Hardness (bottom) Range (bottom) of Frition (bottom) mm FELB - ITO50 </th> <th>Product & Color Biore Hardness Temperature Range Coefficient of Friction (Bottom) Thickness Mini Pice FELB - ITO50 </th> <th>Product & Color Shore Hardness Temperature Range Coefficient of Frittion (Bottom) Inickness Mini- Palester (Bottom) FELB - ITODS A A -0° C to 50° C -0° F to 120° F -0.45 2.5 1.5 9/0.6 FELB - ITODS A -0° C to 50° C -0° F to 120° F -0.45 2.5 1.5 9/0.6 FELW - ITODS A 95A/46D -30° C to 60° C -20° F to 140° F -0.65 2.5 1.5 9/0.6 FEMB - ITODS P -30° C to 60° C -20° F to 140° F -0.25 2.5 1.9 1.9 FEMB - ITODS P -30° C to 60° C -20° F to 140° F -0.25 2.5 1.9 1.9 FEMB - ITOS P -30° C to 60° C -20° F to 140° F -0.25 2.5 1.9 1.9 FEMB - ITOS P -30° C to 60° C -20° F to 140° F -0.26 2.5 3.0 1.9 FEMB - ITOS P -30° C to 60° C -30° F to 140° F -0.26 4.06 2.9 1.9 FELB - ITO P -30° C to 60° C -20° F to 140° F -0.26</th> <th>Product & Color Shore Hardness Temperature Range Coefficient of Friction of Friction (Bottom) Thickness (Bottom) Militium (Bottom) Multipuic (Bottom) FELB - ITOS 0 FELB - ITOS 0 FELB - ITOS 0 FELW - ITOS 0 FELW - ITOS 0 FELW - ITOS 0 FELW - ITOS 0 FELM - ITOS 0 FELM - ITOS 0 FELM - ITOS 0 FELM - ITOS 0 PSA/46D 00° C to 50° C -40° F to 120° F -40° F to 120° F -40° F to 120° F -40° F to 120° F -40° F to 120° F -20° F to 140° F 0.45 2 12 //.0 0.32 FELM - ITOS 0 FELM - IT</th> <th>Product & Color Shore & Color Temperature (Range) Coefficient of Friction of State (Bottom) Thickness (mm) Mility (mm) Pullity (mm) P</th>	Product & Color Hardness (bottom) Range (bottom) of Frition (bottom) mm FELB - ITO50	Product & Color Biore Hardness Temperature Range Coefficient of Friction (Bottom) Thickness Mini Pice FELB - ITO50	Product & Color Shore Hardness Temperature Range Coefficient of Frittion (Bottom) Inickness Mini- Palester (Bottom) FELB - ITODS A A -0° C to 50° C -0° F to 120° F -0.45 2.5 1.5 9/0.6 FELB - ITODS A -0° C to 50° C -0° F to 120° F -0.45 2.5 1.5 9/0.6 FELW - ITODS A 95A/46D -30° C to 60° C -20° F to 140° F -0.65 2.5 1.5 9/0.6 FEMB - ITODS P -30° C to 60° C -20° F to 140° F -0.25 2.5 1.9 1.9 FEMB - ITODS P -30° C to 60° C -20° F to 140° F -0.25 2.5 1.9 1.9 FEMB - ITOS P -30° C to 60° C -20° F to 140° F -0.25 2.5 1.9 1.9 FEMB - ITOS P -30° C to 60° C -20° F to 140° F -0.26 2.5 3.0 1.9 FEMB - ITOS P -30° C to 60° C -30° F to 140° F -0.26 4.06 2.9 1.9 FELB - ITO P -30° C to 60° C -20° F to 140° F -0.26	Product & Color Shore Hardness Temperature Range Coefficient of Friction of Friction (Bottom) Thickness (Bottom) Militium (Bottom) Multipuic (Bottom) FELB - ITOS 0 FELB - ITOS 0 FELB - ITOS 0 FELW - ITOS 0 FELW - ITOS 0 FELW - ITOS 0 FELW - ITOS 0 FELM - ITOS 0 FELM - ITOS 0 FELM - ITOS 0 FELM - ITOS 0 PSA/46D 00° C to 50° C -40° F to 120° F -40° F to 120° F -40° F to 120° F -40° F to 120° F -40° F to 120° F -20° F to 140° F 0.45 2 12 //.0 0.32 FELM - ITOS 0 FELM - IT	Product & Color Shore & Color Temperature (Range) Coefficient of Friction of State (Bottom) Thickness (mm) Mility (mm) Pullity (mm) P	

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	204	80A	-40° C to 50° C	0.20	2.5	15	9/ ₁₆	3.20	18	FDA/ EU	
FRLW - 11050		00A	-40° F to 120° F	0.20	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/	
FRIVID - 11050	958		-20° F to 140° F		3	36	17/ ₁₆	4.30	25.20	USDA/EU	
			-30° C to 60° C	0.20	2.5	32	11/4	4.10	24	FDA/	
FRMW - ITO50	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 Minin Pull Diam		lley	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			
FRLD - CED - D	80A	-40° F to 120° F	0.30	3	30	11/4	2.80	15.60	FDAVEU		
FRLW - CEB - B	80A	-40° C to 50° C	0.30	2	19	3/4	2.20	12.40	FDA/ EU		
FRLW - CED - D	00A	-40° F to 120° F	0.50	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	60A	-40° F to 120° F	0.20	3	30	11/4	2.80	15.60	FDAV EU		
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	95A/46D	-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 Range			-20° C to	o +40° C		-30° C to	D +60° C	-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.



G 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

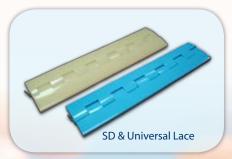


FT - Electrode Welding Kit

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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