

Reinforced Impression Top Belts										
Product & Color	Shore Hardness	Temperature Range	Coefficient of Friction on Steel (Bottom)	Thickness		Minimum Pulley Diameter		Pull Force: Pretension of 1%		Approvals
				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	80A	-40° C to 50° C -40° F to 120° F	0.20	2.5 3	15 18	9/16 11/16	3.20 3.48	18 21.60	FDA/ EU	
FRMB - ITO50	95A/46D	-30° C to 60° C -20° F to 140° F	0.20	2.5 3	32 36	1 1/4 1 7/16	4.10 4.30	24 25.20	FDA/ USDA/ EU	
FRMW - ITO50	95A/46D	-30° C to 60° C -20° F to 140° F	0.20	2.5 3	32 36	1 1/4 1 7/16	4.10 4.30	24 25.20	FDA/ 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 special applications, for example in bakeries and confectionary where reinforcement is necessary and hygiene cannot be compromised. The fabric reinforcement is thermally coated with a thin layer of Volta TPE to provide a seal, preventing both contamination and delamination. As an extra precaution, belt edges can be thermo-sealed or recessed to prevent fraying and the ingress of contaminants.



Fabric Reinforcement coated with homogeneous Volta material.

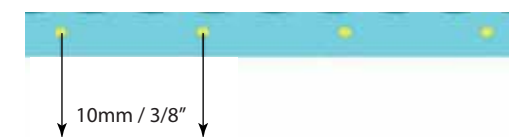
Covered Bottom/ Covered Bottom Impression Top Belts										
Product & Color	Shore Hardness	Temperature Range	Coefficient of Friction on Steel (Bottom)	Thickness		Minimum Pulley Diameter		Pull Force: Pretension of 1%		Approvals
				mm	mm	Inch	kg/cm	lbs/in		
FRLB - CEB - B	80A	-40° C to 50° C -40° F to 120° F	0.30	2 3	19 30	3/4 1 1/4	2.20 2.80	12.40 15.60	FDA/ EU	
FRLW - CEB - B	80A	-40° C to 50° C -40° F to 120° F	0.30	2 3	19 30	3/4 1 1/4	2.20 2.80	12.40 15.60	FDA/ EU	
FRLW - CEB - C	80A	-40° C to 50° C -40° F to 120° F	0.20	2 3	19 30	3/4 1 1/4	2.20 2.80	12.40 15.60	FDA/ 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	95A/46D	-30° C to 60° C -20° F to 140° F	0.30	3	40	1 5/8	6.80	38	FDA/ USDA/ EU	
FRMB - CEB - C			0.30	3	40	1 5/8	6.80	38	FDA/ EU	
FRMB - CB			0.45	3	40	1 5/8	7.20	40	FDA/ USDA/ EU	
FRMW - CEB - C			0.30	3	40	1 5/8	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/FEMW-SP	FELB-SP	FLB-IST
Illustration							
Description	Super Grip	Multi Grip	Wood Grip	High Grip	Spikes	Spikes	Saw Tooth
Hardness	62A	62A	62A	62A	95A	80A	80A
Size (mm)	Width*	50	50	70	1524	1524	220mm
	Thickness	4	6	4	2/ 2.5/ 3/ 4	2/ 2.5/ 3**	4
CoF (Steel)	0.98	1.08	1.05	0.95	0.25	0.45	0.55
Temperature Range	-20° C to +40° C				-30° C to +60° C	-40° C to +50° C	-40° C to +50° C

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

Aramid Cord Reinforced Belts

A food grade flat belt with special tensioning members hermetically enclosed in non-porous homogeneous material which has been tested for durability. Used mainly in applications such as loads on long, narrow belts with small diameter pulleys.



Aramid Cord Reinforced (ACR) Belt										
Product & Color	Shore Hardness	Temperature Range	Coefficient of Friction on Steel (Bottom)	Thickness		Minimum Pulley Diameter		Pull Force: Pretension of 0.2%		Approvals
				mm	mm	Inch	kg/cm	lbs/in		
FMB-ACR	95A/46D	-30°C to 60°C -20°F to 140°F	0.36*	3.2	80	3 1/8	3.50	19.60	FDA/ EU	
Aramid Cord Reinforced (ACR) Embossed Bottom Belt										
FEMB-ACR	95A/46D	-30° C to 60° C -20° F to 140° F	0.25**	3.2	80	3 1/8	2.60	14.50	FDA/ EU	
Aramid Cord Reinforced (ACR) Impression Top Belt										
FLB-ITO50-ACR	80A	-40°C to 50°C -40°F to 120°F	0.55*	2.5	20	0.79	4.40	24.70	FDA/ EU	
Aramid Cord Reinforced (ACR) Impression Top & Embossed Bottom Belt										
FELB-ITO50-ACR	80A	-40°C to 50°C -40°F to 120°F	0.45**	2.5	20	0.79	4	22.40	FDA/ EU	
Low Temperature (LT) Aramid Cord Reinforced (ACR) Embossed Bottom Belt										
FELB-LT-ITO50-ACR	80A	-40°C to 50°C -40°F to 120°F	0.45**	2.5	18	0.7	4	22.40	FDA/ EU	
Low Temperature (LT) Aramid Cord Reinforced (ACR) Impression Top & Embossed Bottom Belt										
FEMB-LT-ITO50-ACR	95A/46D	-35°C to 50°C -30°F to 120°F	0.25**	2.5	40	1.57	4	22.40	FDA/ EU	

Note: The Pull Force for ACR has been calculated on the basis of finger splice weld.

Endless Making Techniques



FT - Electrode Welding System
The FT Welding System provides electrode welded technology.



FBW Flat Butt Welding System
The FBW System performs a butt-weld merging belts edge to edge.

Volta Hinge Lace system

Volta lace is compatible with Volta 'M' material belts from 2.5 to 5 mm thickness. All Volta flat belt material is easy to clean without removing from conveyor and therefore lace is used only where absolutely necessary. The strength of the belt will be affected at the joint where lace is used.



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The Next Step in Belting

Flat Belts for the Food Industry

- Volta has been manufacturing belts from homogenous Thermoplastic Elastomer (TPE) materials for over 40 years.
- The base belts are cut and abrasion resistant and have no ply or hinged elements which harbor bacteria.
- Volta products are the optimal choice where superior hygiene, conveying and cost efficiency are targets.

Homogeneous Belts										
Product & Color	Shore Hardness	Temperature Range	Coefficient of Friction on Steel (Bottom)	Thickness		Minimum Pulley Diameter		Pull Force: Pretension of 1%		Approvals
				mm	Inch	mm	Inch	kg/cm	lbs/in	
FHB	59D	-20° C to 75° C -5° F to 170° F	0.28	1.5	2	50	2	1.50	8.40	FDA/ USDA/ EU
				2	2 3/4	70	2 3/4	2	11.20	
				3	3 1/2	90	3 1/2	3	16.80	
				4	4 3/8	110	4 3/8	4	22.40	
				5	5 1/8	150	5 1/8	5	28.00	
				6	6 1/4	180	6 1/4	6	33.60	
FHW	59D	-20° C to 75° C -5° F to 170° F	0.28	1*	1 1/8	34	1 1/8	1	5.60	FDA/ USDA/ EU
				1.5	2	50	2	1.50	8.40	
				2	2 3/4	70	2 3/4	2	11.20	
				2.5	3 1/8	80	3 1/8	2.50	14.00	
				3	3 1/2	90	3 1/2	3	16.80	
				4	4 3/8	110	4 3/8	4	22.40	
FMB	95A/46D	-30° C to 60° C -20° F to 140° F	0.36	1.6	1 3/16	21	1 3/16	0.96	5.37	FDA/ USDA/ EU
				2	2 3/16	30	2 3/16	1.20	6.80	
				2.5	3 1/8	35	3 1/8	1.50	8.40	
				3	3 7/8	40	3 7/8	1.80	10.10	
				4	4 3/8	60	4 3/8	2.40	13.50	
				5	5 1/8	80	5 1/8	3	16.90	
				6	6 3/8	90	6 3/8	3.60	20.25	
				7	7 1/4	105	7 1/4	4.20	23.80	
FW	95A/46D	-30° C to 60° C -20° F to 140° F	0.36	2	2 3/16	30	2 3/16	1.14	6.40	FDA/ USDA/ EU
				3*	3 1/8	40	3 1/8	1.70	9.60	
				4*	4 3/8	60	4 3/8	2.28	12.80	
				1.6	1 3/16	21	1 3/16	0.96	5.37	
FMW	95A/46D	-30° C to 60° C -20° F to 140° F	0.36	2	2 3/16	30	2 3/16	1.20	6.80	FDA/ USDA/ EU
				2.5	3 1/8	35	3 1/8	1.50	8.40	
				3	3 7/8	40	3 7/8	1.80	10.10	
				4	4 3/8	60	4 3/8	2.40	13.50	
				5	5 1/8	80	5 1/8	3	16.90	
				7	7 1/4	105	7 1/4	4.20	23.80	
FTB	72A	-40° C to 40° C -40° F to 104° F	1.25	2.5	3 1/8	16	3 1/8	0.475	2.66	FDA/ USDA/ EU
				3	3 7/8	19	3 7/8	0.57	3.2	
Low Temperature (LT) Homogenous Belts										
FMB	95A/46D	-35° C to 40° C -31° F to 104° F	0.4	1.6	1 3/16	16	1 3/16	0.64	3.60	FDA/ USDA/ EU
				2	2 3/16	30	2 3/16	0.80	4.40	
				3	3 7/8	40	3 7/8	1.20	6.70	
				4	4 3/8	60	4 3/8	1.60	9	
				5	5 1/8	80	5 1/8	2	11.20	
				6	6 3/8	90	6 3/8	2.40	13.40	

Note: * Not standard. Standard belt width=1524mm/60".

Flat Belt Top Surfaces



Homogeneous Embossed Bottom Belts										
Product & Color	Shore Hardness	Temperature Range	Coefficient of Friction on Steel (Bottom)	Thickness		Minimum Pulley Diameter		Pull Force: Pretension of 1%		Approvals
				mm	Inch	mm	Inch	kg/cm	lbs/in	
FEHB	95D	-20° C to 75° C -5° F to 170° F	0.20	3	3 1/2	90	3 1/2	3	16.80	FDA/ USDA/ EU
FEHW				4	4 3/8	110	4 3/8	4	22.40	
FELB	80A	-40° C to 50° C -40° F to 120° F	0.45	1.6	3/8	10	3/8	0.32	1.79	FDA/ EU
				2	1/2	12	1/2	0.40	2.24	
				3	1 3/16	20	1 3/16	0.60	3.36	
FELW	80A	-40° C to 50° C -40° F to 120° F	0.45	1.6	3/8	10	3/8	0.32	1.79	FDA/ EU
				2	1/2	12	1/2	0.40	2.24	
				2.5	3/16	15	3/16	0.50	2.80	
FEMB	95A/46D	-30° C to 60° C -20° F to 140° F	0.25	1.6	1 3/16	24	1 3/16	0.60	3.60	FDA/ USDA/ EU
				2	1 3/16	30	1 3/16	0.80	4.50	
				2.5	1 3/8	35	1 3/8	1	5.60	
FEMW	95A/46D	-30° C to 60° C -20° F to 140° F	0.25	2	2 3/8	40	2 3/8	1.20	6.80	FDA/ USDA/ EU
				3	3 1/8	60	3 1/8	1.60	9.20	
				4	4 3/8	80	4 3/8	2.10	11.70	
FEW	95A/46D	-30° C to 60° C -20° F to 140° F	0.25	2	2 3/16	30	2 3/16	0.76	4.20	FDA/ USDA/ EU
				3	3 1/8	40	3 1/8	1.12	6.30	
				4	4 3/8	60	4 3/8	1.50	8.40	
FETB	72A	-40° C to 40° C -40° F to 104° F	1	1.6	3/8	10	3/8	0.29	1.6	FDA/ USDA/ EU
				2	1/2	13	1/2	0.36	2	
				3	3/4	19	3/4	0.55	3	
Reinforced Belts										
FRLB	80A	-40° C to 50° C -40° F to 120° F	0.20	1.6	5/16	8	5/16	4	22	FDA/ EU
				2	3/8	10	3/8	5	28	
FRLW	80A	-40° C to 50° C -40° F to 120° F	0.20	1.6	5/16	8	5/16	4	22	FDA/ EU
				2	3/8	10	3/8	5	28	
				2.5	3/16	15	3/16	6.20	35	
FRMB	95A/46D	-30° C to 60° C -20° F to 140° F	0.20	2	1	25	1	6	33.50	FDA/ USDA/ EU
				3	1 3/8	35	1 3/8	7	39	
FRMW	95A/46D	-30° C to 60° C -20° F to 140° F	0.20	2	1	25	1	6	33.50	FDA/ USDA/ EU
				2.5	1 3/16	30	1 3/16	6.50	36.20	
				3	1 3/8	35	1 3/8	7	39	
FRTB*	72A	-40° C to 40° C -40° F to 104° F	0.20	1.6	5/16	8	5/16	2.60	14.90	FDA/ USDA/ EU

Note: FRTB PF* - Pull Force calculated with Finger-Splice welding

Flat Belt Bottom Surfaces



Impression Top Belts										
Product & Color	Shore Hardness	Temperature Range	Coefficient of Friction on Steel (Bottom)	Thickness		Minimum Pulley Diameter		Pull Force: Pretension of 1%		Approvals
				mm	Inch	mm	Inch	kg/cm	lbs/in	
FELB - ITO50	80A	-40° C to 50° C -40° F to 120° F	0.45	2	1/2	12	1/2	0.32	1.87	FDA/ EU
				2.5	3/16	15	3/16	0.40	2.32	
				3	1 1/16	18	1 1/16	0.50	2.80	
				2	1/2	12	1/2	0.32	1.87	
				2.5	3/16	15	3/16	0.40	2.32	
				3	1 1/16	18	1 1/16	0.50	2.80	
FELW - ITO50	80A	-40° C to 50° C -40° F to 120° F	0.45	2	1/2	12	1/2	0.32	1.87	FDA/ EU
				2.5	3/16	15	3/16	0.40	2.32	
				3	1 1/16	18	1 1/16	0.50	2.80	
FMB - ITO50	95A/46D	-30° C to 60° C -20° F to 140° F	0.36	2.5	1 3/8	35	1 3/8	1.50	8.40	FDA/ USDA/ EU
				2	1 3/16	30	1 3/16	0.60	3.36	
				2.5	1 3/8	35	1 3/8	0.74	4.20	
FEMB - ITO50	95A/46D	-30° C to 60° C -20° F to 140° F	0.25	2	1 3/16	30	1 3/16	0.60	3.36	FDA/ USDA/ EU
				2.5	1 3/8	35	1 3/8	0.74	4.20	
				3	1 3/8	40	1 3/8	0.94	5.26	
				5	2 3/4	70	2 3/4	1.48	8.40	
FEMW - ITO50	95A/46D	-30° C to 60° C -20° F to 140° F	0.25	2	1 3/16	30	1 3/16	0.60	3.36	FDA/ USDA/ EU
				2.5	1 3/8	35	1 3/8	0.74	4.20	
				3	1 3/8	40	1 3/8	0.94	5.26	
FHW - ITO50	59D	-20° C to 75° C -5° F to 170° F	0.28	2	2 3/4	70	2 3/4	1.50	8.40	FDA/ USDA/ EU
				2.5	3 1/8	80	3 1/8	2	11.20	
				3	3 1/2	90	3 1/2	2.50	14	
ITR10	80A	-40° C to 50° C -40° F to 120° F	0.45	3	1 1/16	18	1 1/16	0.52	2.94	FDA/ EU
				4	1	25	1	0.70	3.92	
FELB - IRT	80A	-40° C to 50° C -40° F to 120° F	0.45	4	1	25	1	0.60	3.40	FDA/ EU
				3.5	1 9/16	40	1 9/16	1	5.60	
				4	2 3/16	55	2 3/16	1.20	6.80	
FEMB - IRT	95A/46D	-30° C to 60° C -20° F to 140° F	0.25	3.5	1 9/16	40	1 9/16	1	5.60	FDA/ USDA/ EU
				4	2 3/16	55	2 3/16	1.20	6.80	
FMB - IRT	95A/46D	-30° C to 60° C -20° F to 140° F	0.36	3.5	2 1/8	52.5	2 1/8	2.10	11.80	FDA/ USDA/ EU
				4	2 3/8	60	2 3/8	2.40	13.50	
FELB - SP	80A	-40° C to 50° C -40° F to 120° F	0.45	2	1 3/16	20	1 3/16	0.40	2.24	FDA/ EU
				2.5	1 5/16	24	1 5/16	0.50	2.80	
				3	1 1/8	28	1 1/8	0.60	3.36	
FEMB - SP	95A/46D	-30° C to 60° C -20° F to 140° F	0.25	2	1 3/8	40	1 3/8	0.80	4.50	FDA/ USDA/ EU
				2.5	1 3/4	45	1 3/4	1	5.60	
				3	2	50	2	1.20	6.80	
FEMW - SP	95A/46D	-30° C to 60° C -20° F to 140° F	0.25	2	1 3/8	40	1 3/8	0.80	4.50	FDA/ USDA/ EU
				2.5	1 3/4	45	1 3/4	1	5.60	
				3	2	50	2	1.20	6.80	
FELB - CT	80A	-40° C to 50° C -40° F to 120° F	0.45	3	1 3/8	35	1 3/8	0.60	3.36	FDA/ EU
				3	1 3/8	35	1 3/8	0.60	3.36	
				3	1 3/8	35	1 3/8	0.60	3.36	
				3	1 3/8	35	1 3/8	0.60	3.36	
FMB - CT	95A/46D	-30° C to 60° C -20° F to 140° F	0.40	3	2 3/8	60	2 3/8	1.80	10.12	FDA/ USDA/ EU
				3	2 3/8	60	2 3/8	1.20	6.75	
				2.5	2	50	2	1	5.60	
FEMB - CT	95A/46D	-30° C to 60° C -20° F to 140° F	0.25	3	2 3/8	60	2 3/8	1.20	6.75	FDA/ USDA/ EU
				3	2 3/8	60	2 3/8	1.20	6.75	
				2.5	2	50	2	1	5.60	
FELB - MC	80A	-40° C to 50° C -40° F to 120° F	0.45	2.5	1 3/8	40	1 3/8	0.50	2.80	FDA/ EU
				2.5	1 3/8	40	1 3/8	0.50	2.80	
FELW - MC	80A	-40° C to 50° C -40° F to 120° F	0.45	2.5	1 3/8	40	1 3/8	0.50	2.80	FDA/ EU
				3	2	50	2	0.60	3.40	
FEMB										