

## CONVEYOR AND PROCESS BELTS

## **TECHNICAL DATA SHEET**

U2 FXD VL

Wett type       Rigid         Material       Fabric with polyurethane (TPU) impregnation         Thickness       in.         Surface       Fabric         Colour       Green         TECHNICAL SPECIFICATIONS         Total thickness       0.75 mm       0.03 in.         Weight       0.90 kg/m²       0.18 lbs./         Elongation at 1%       5 N/mm       29.0 lbs./         Max. admissible pull       5 N/mm       29.0 lbs./         Temperature       min.       -20 °C       -4 °F         resistance (1)       max.       100 °C       212 °F         (1) Use of the belt with limit values may reduce its life.       Iminum radius / diameter (2)       Knife edge minimum radius       4 mm       0,14         Bending roller min. diameter       8 mm       0.33       0.02       0.22       0.27         * Knife edge minimum radius       4 mm       0,14       Bending roller min. diameter       16 mm       0.6         (2) The above mentioned values depend on the type of CHIORINO joint recomm       Coefficient of friction on driving surface       Raw steel sheet       0.20 [-]         Laminated plastic/wood       0.25 [-]       Steel roller       0.30 [-]         Max. production width       2000 mm <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>1M</th> <th>5 U0</th>							1M	5 U0
Material Thickness Surface of friction of friction         Polyurethane (TPU)           Surface of friction of friction         0.20         mm         0.008         in.           Material of friction         Polyester (PET)         I         I           Material of friction         Polyester (PET)         I           Material of friction         Fabric with polyurethane (TPU) impregnation friction         Fabric           Thickness Surface pattern         Fabric with polyurethane (TPU) impregnation free         Impregnation friction           Nume         Polyester (PET)         Impregnation friction         Impregnation friction           Material pattern         Fabric with polyurethane (TPU) impregnation friction         Impregnation friction         Impregnation friction           Num         Polyester (PET)         Impregnation friction         Impregnation friction         Impregnation friction           Material pattern         Fabric Green         Fabric friction         Impregnation friction         Impregnation friction         Impregnation friction           Neight         0.03         in.         Supregnation friction         Impregnation friction         Impregnation friction         Impregnation friction           Neight         0.03         in.         29.0         Ibs.////////////////////////////////////	C	COMPOSITI	ON					
Surface pattern Colour friction       VL         Silver Cofficient friction       Silver F         Material Weft type       Polyester (PET)         Piles no.       1         Weft type       Rigid         Thickness       Fabric with polyurethane (TPU) impregnation Thickness         Surface pattern       Fabric         Colour       Green         TeCHNICAL SPECIFICATIONS         Total thickness       0.75 mm       0.03 in.         Weight       0.90 kg/m <sup>2</sup> 0.18 lbs./         Elongation at 1%       5 N/mm       29.0 lbs./         Max. admissible pull       5 N/mm       29.0 lbs./         Temperature resistance (1)       min20 °C       -4 °F         Max. admissible pull       5 N/mm       29.0 lbs./         Minimum radius / diameter (2)       9       9         Knife edge minimum radius may reduce its life.       9.10         Minimum radius / diameter (2)       8 mm       0.3         Knife edge minimum radius depend on the type of CHIORINO joint recomm       9.2         Coefficient of friction on driving surface       8 mm       0.30         Raw steel sheet       0.20 [-]       4 mm       0.4         Bending roller       0.30 [-]       9 in.				ethane (	TPU)			
Surface pattern Colour of friction of friction friction       VL         Silver Colour of friction       Silver F         Material Weft type       Polyester (PET)         Plies no.       1         Weft type       Rigid         Thickness       Fabric with polyurethane (TPU) impregnation Thickness         Surface pattern       Fabric         Colour       Green         TeCHNICAL SPECIFICATIONS         Total thickness       0.75 mm       0.03 in.         Weight       0.90 kg/m <sup>2</sup> 0.18 lbs./         Elongation at 1%       5 N/mm       29.0 lbs./         Max. admissible pull       5 N/mm       29.0 lbs./         Max. admissible pull       5 N/mm       29.0 lbs./         Max. admissible pull       5 N/mm       29.0 lbs./         Temperature max. 100 °C       212 °F         Ninimum radius / diameter <sup>(2)</sup> Imm20 °C       -4 °F         Natifie edge minimum radius may reduce its life.       Imm. 0.10         Bending roller min. diameter       8 mm       0.3         Counter-bending roller min. diameter       16 mm       0.6         Coefficient of friction on driving surface       Raw steel sheet       0.20 [-]         Raw steel sheet       0.20 [-]       Imman	D	Thickness			,	3 in.		
Solution         Silver           Colour of friction         Silver           Pies no.         1           Wef type         Rigid           Thickness         Fabric with polyurethane (TPU) impregnation fabric           Surface pattern         Fabric with polyurethane (TPU) impregnation fabric           Total thickness         0.75 mm         0.03 in.           Weight         0.90 kg/m²         0.18 lbs./           Total thickness         0.75 mm         0.03 in.           Weight         0.90 kg/m²         0.18 lbs./           Temperature resistance (1)         min20 °C         -4 °F           Max. admissible pull         5 N/mm         29.0 lbs./           Temperature resistance (1)         min20 °C         -4 °F           Minimum radius / diameter (2)         max. 100 °C         212 °F           Knife edge minimum radius         4 mm         0,11           Bending roller min. diameter         16 mm         0.6           (2) The above mentioned values depend on the type of CHIORINO joint recomm         29 in.           Counter-bending roller min. diameter         16 mm         0.6           (2) The above mentioned values depend on the type of CHIORINO joint recomm         29 in.           Suttable for         0.200 rm	eyin ace		VL					
Coefficient of friction         I           Piles no.         1           Weft type         Rigid           Material         Fabric with polyurethane (TPU) impregnation           Thickness         mm in.           Surface pattern         Fabric           Colour         Green           Total thickness         0.75 mm         0.03 in.           Weight         0.90 kg/m²         0.18 lbs./           Elongation at 1%         5 N/mm         29.0 lbs./           Max. admissible pull         5 N/mm         29.0 lbs./           Minimum radius / diameter         6 mm         0.212 %           Minimum radius / diameter         8 mm         0.33           Counter-bending roller min. diameter         16 mm         0.6           (*)         The above mentioned values depend on the type of CHORINO joint recomm         0.20 [-]           Raw steel sheet         0.20 [-]         1           Laminated plastic/wood         0.25 [-]         1           SutTABLE FOR         SutTABLE FOR	Sur	•	Silver					
Material Polyester (PET)           Material Plies no. Weft type         Polyester (PET)           Material Plies no. Weft type         Fabric Fabric           Surface Surface Pattern Colour         Fabric C           TechNICAL SPECIFICATIONS         0.03 in.           Weight         0.75 mm         0.03 in.           Weight         0.90 kg/m²         0.18 /bs./ Ibs./           Total thickness         0.75 mm         0.03 in.           Max. admissible pull         5 N/mm         29.0 lbs./ Ibs./           Temperature resistance (1)         min20 °C         -4 °F           Max. admissible pull         5 N/mm         29.0 lbs./ Ibs./           Max. admissible pull         5 N/mm         29.0 lbs./ Ibs./           Max. admissible pull         5 N/mm         29.0 lbs./ Ibs./           Temperature resistance (1)         min20 °C         -4 °F           Max. admissible pull         5 N/mm         29.0 lbs./ Ibs./           Minimum radius / diameter (2)         9         9           Knife edge minimum radius depend on the type of CHIORINO joint recomm         0.3           Counter-bending roller min. diameter         16 mm         0.6           (2)         12         9         100           Bending roller         0	0	Coefficient	LF					
Wett type       Rigid         Material       Fabric with polyurethane (TPU) impregnation         Thickness       mm in.         Surface       Fabric         Colour       Green         TECHNICAL SPECIFICATIONS         Total thickness       0.75 mm       0.03 in.         Weight       0.90 kg/m²       0.18 lbs./         Elongation at 1%       5 N/mm       29.0 lbs./         Max. admissible pull       5 N/mm       29.0 lbs./         Temperature       min.       -20 °C       -4 °F         resistance (1)       max.       100 °C       212 °F         (1) Use of the belt with limit values may reduce its life.       minimum radius / diameter (2)       -         Knife edge minimum radius       4 mm       0,14         Bending roller min. diameter       16 mm       0.6.         (2) The above mentioned values depend on the type of CHIORINO joint recomm       Coefficient of friction on driving surface         Raw steel sheet       0.20 [-]       Itaminated plastic/wood       0.25 [-]         SUITABLE FOR       E       Food: chocolate bars       Food: chocolate bars         Food: chocolate bars       Food: confectionery       Food: slicing machines         Packaging       Silicing ma			Polyes	ter (PET	)			
Wett type         Rigid           Material         Fabric with polyurethane (TPU) impregnation           Thickness          mm          in.           Surface         Fabric          in.          in.           Total thickness         O.03         in.          in.          in.           Weight         O.03         green         0.03         in.          in.          in.           Weight         O.90         kg/m²         0.03         in.          in.          in.           Weight         O.90         kg/m²         0.18         lbs./           Elongation at 1%         S N/mm         29.0         lbs./           Max. admissible pull         S N/mm         29.0         lbs./           Temperature         min.         -20 °C         -4         °F           Minimum radius / diameter         Ino         Max.         100 °C         212         °F           Minimum radius / diameter         8 mm         0.30         -3.3         Counter-bending roller min. diameter         16 mm         0.6           Raw steel sheet         0.20 [-]	xtile 'cas	Plies no.	1					
Proof         Inickness         Inicknes         Inickness         Ini	Te	Weft type	Rigid					
Surface pattern Colour       Fabric         Colour       Green         TECHNICAL SPECIFICATIONS         Total thickness       0.75 mm       0.03 in.         Weight       0.90 kg/m²       0.18 lbs./         Elongation at 1%       5 N/mm       29.0 lbs./         Max. admissible pull       5 N/mm       29.0 lbs./         Temperature min20 °C       -4 °F         resistance (1)       max. 100 °C       212 °F         (1) Use of the belt with limit values may reduce its life.       100 °C       212 °F         Minimum radius / diameter (2)       Knife edge minimum radius       4 mm       0,10         Max. for edge minimum radius       4 mm       0,20       6.2         Counter-bending roller min. diameter       8 mm       0.3         Coefficient of friction on driving surface       Raw steel sheet       0.20 [-]         Raw steel sheet       0.20 [-]       Iaminated plastic/wood       0.25 [-]         Steel roller       0.30 [-]       Max. production width       2000 mm       79 in.         SUITABLE FOR       Food: chocolate bars       Food: confectionery       Food: slicing machines       Packaging		Material	Fabric	with pol	yurethar	ne (TPl	J) impreg	nation
<b>a b</b> pattern Colour       Itablic Green <b>TECHNICAL SPECIFICATIONS</b> TechNICAL SPECIFICATIONS         Total thickness       0.75 mm       0.03 in.         Weight       0.90 kg/m²       0.18 lbs./         Elongation at 1%       5 N/mm       29.0 lbs./         Max. admissible pull       5 N/mm       29.0 lbs./         Temperature resistance (1)       min20 °C       -4 °F         max. 100 °C       212 °F       7         (1) Use of the belt with limit values may reduce its life.       7         Minimum radius / diameter (2)       Knife edge minimum radius       4 mm       0,10         Bending roller min. diameter       8 mm       0.33         Counter-bending roller min. diameter       16 mm       0.60         (2) The above mentioned values depend on the type of CHIORINO joint recomm       7         Coefficient of friction on driving surface       Raw steel sheet       0.20 [-]         Raw steel sheet       0.20 [-]       1         Stell roller       0.30 [-]       1         Max. production width       2000 mm       79 in.         SUITABLE FOR         Food: chocolate bars         Food: confectionery       Food: slicing mach	ing	Thickness		mm		in.		
Colour       Green         TECHNICAL SPECIFICATIONS         Total thickness       0.75 mm       0.03 in.         Weight       0.90 kg/m²       0.18 lbs./         Elongation at 1%       5 N/mm       29.0 lbs./         Max. admissible pull       5 N/mm       29.0 lbs./         Max. admissible pull       5 N/mm       29.0 lbs./         Temperature       min.       -20 °C       -4 %         resistance (1)       max.       100 °C       212 %         (1) Use of the belt with limit values may reduce its life.       Minimum radius / diameter (2)       4 mm       0,10         Knife edge minimum radius       4 mm       0,10         Bending roller min. diameter       8 mm       0.33         Counter-bending roller min. diameter       16 mm       0.63         (2) The above mentioned values depend on the type of CHIORINO joint recomm       Coefficient of friction on driving surface       8 mm       0.30         (2) The above mentioned values depend on the type of CHIORINO joint recomm       Coefficient of friction on driving surface       16 mm       79 in.         Raw steel sheet       0.20 [-]       10 mm       20 mm       79 in.         SuitABLE FOR       SuitABLE FOR       13 mm       14 mm       14 mm	Driv		Fabric					
Total thickness0.75 mm0.03 in.Weight0.90 kg/m²0.18 lbs./Elongation at 1%5 N/mm29.0 lbs./Max. admissible pull5 N/mm29.0 lbs./Max. admissible pull5 N/mm29.0 lbs./Temperaturemin20 °C-4 °Fresistance (1)max.100 °C212 °F(1) Use of the belt with limit values may reduce its life.Immum radius / diameter (2)Knife edge minimum radius4 mm0,10Bending roller min. diameter8 mm0.33Counter-bending roller min. diameter16 mm0.63(2) The above mentioned values depend on the type of CHIORINO joint recommCoefficient of friction on driving surfaceRaw steel sheet0.20 [-]Laminated plastic/wood0.25 [-]Steel roller0.30 [-]Max. production width2000 mmZ000 confectioneryFood: chocolate barsFood: confectioneryFood: slicing machinesPackaging	_ •	•	Green					
Weight       0.90 kg/m²       0.18 lbs./         Elongation at 1%       5 N/mm       29.0 lbs./         Max. admissible pull       5 N/mm       29.0 lbs./         Temperature min.       -20 °C       -4 °F         resistance (1) max.       100 °C       212 °F         (1) Use of the belt with limit values may reduce its life.       ************************************	Т	ECHNICAL	SPECI	FICATIO	NS			
Elongation at 1%       5 N/mm       29.0       lbs./         Max. admissible pull       5 N/mm       29.0       lbs./         Temperature min.       -20 °C       -4       °F         resistance <sup>(1)</sup> max.       100 °C       212       °F         ( <sup>1)</sup> Use of the belt with limit values may reduce its life.       ( <sup>1)</sup> Use of the belt with limit values may reduce its life.       ( <sup>1)</sup> Use of the belt with limit values may reduce its life.         Minimum radius / diameter <sup>(2)</sup> Knife edge minimum radius       4 mm       0,10         Bending roller min. diameter       8 mm       0.3.3         Counter-bending roller min. diameter       16 mm       0.6.6.         ( <sup>2)</sup> The above mentioned values depend on the type of CHIORINO joint recomm       Coefficient of friction on driving surface         Raw steel sheet       0.20 [-]       Image: steel roller       1.00 mm         Laminated plastic/wood       0.25 [-]       Image: steel roller       1.00 mm         SUITABLE FOR       SUITABLE FOR       Food: chocolate bars       Food: confectionery       Food: slicing machines         Packaging       Packaging       Image: slicing machines       Packaging       Image: slicing machines	Tota	al thickness			0.75	mm	0.03	in.
Max. admissible pull       5 N/mm       29.0 <i>lbs./</i> Temperature resistance <sup>(1)</sup> max. 100 °C       212       °F         ( <sup>1)</sup> Use of the belt with limit values may reduce its life.       Iminimum radius / diameter <sup>(2)</sup> Iminimum radius / diameter <sup>(2)</sup> Knife edge minimum radius       4 mm       0,10         Bending roller min. diameter       8 mm       0.3.3         Counter-bending roller min. diameter       16 mm       0.6.3         ( <sup>2)</sup> The above mentioned values depend on the type of CHIORINO joint recomm       Coefficient of friction on driving surface         Raw steel sheet       0.20 [-]       Iminiated plastic/wood       0.25 [-]         Steel roller       0.30 [-]       Imax. production width       2000 mm       79 in.         SUITABLE FOR       Food: chocolate bars       Food: confectionery       Food: slicing machines       Packaging	Weight			0.90	kg/m <sup>2</sup>	0.18	lbs./sq.	
Temperature resistance (1)       min.       -20 °C       -4 °F         max.       100 °C       212 °F         (1) Use of the belt with limit values may reduce its life.         Minimum radius / diameter (2)         • Knife edge minimum radius       4 mm 0,10         • Bending roller min. diameter       8 mm 0.3.         • Counter-bending roller min. diameter       16 mm 0.6.         (2) The above mentioned values depend on the type of CHIORINO joint recomm         Coefficient of friction on driving surface         • Raw steel sheet       0.20 [-]         • Laminated plastic/wood       0.25 [-]         • Steel roller       0.30 [-]         Max. production width       2000 mm       79 in.         SUITABLE FOR       Food: chocolate bars         Food: clocolate bars       Food: slicing machines         Packaging       Packaging	Elongation at 1%			5	N/mm	29.0	lbs./in.	
resistance (1) max. 100 °C 212 °F (1) Use of the belt with limit values may reduce its life. Minimum radius / diameter (2) Knife edge minimum radius 4 mm 0,10 Bending roller min. diameter 8 mm 0.3. Counter-bending roller min. diameter 16 mm 0.6. (2) The above mentioned values depend on the type of CHIORINO joint recomm Coefficient of friction on driving surface Raw steel sheet 0.20 [-] Laminated plastic/wood 0.25 [-] Steel roller 0.20 [-] Rubberized roller 0.30 [-] Max. production width 2000 mm 79 in. SUITABLE FOR Food: chocolate bars Food: confectionery Food: slicing machines Packaging	Max. admissible pull			5	N/mm	29.0	lbs./in.	
Minimum radius / diameter <sup>(2)</sup> Knife edge minimum radius 4 mm 0,10 Bending roller min. diameter 8 mm 0.3. Counter-bending roller min. diameter 16 mm 0.6. (2) The above mentioned values depend on the type of CHIORINO joint recomm Coefficient of friction on driving surface Raw steel sheet 0.20 [-] Laminated plastic/wood 0.25 [-] Steel roller 0.20 [-] Rubberized roller 0.30 [-] Max. production width 2000 mm 79 in. SUITABLE FOR Food: chocolate bars Food: confectionery Food: slicing machines Packaging	resistance <sup>(1)</sup> max			max.	100	°C	-	-
<ul> <li>Knife edge minimum radius</li> <li>A mm 0,10</li> <li>Bending roller min. diameter</li> <li>8 mm 0.3.</li> <li>Counter-bending roller min. diameter</li> <li>16 mm 0.6.</li> <li>(2) The above mentioned values depend on the type of CHIORINO joint recomm</li> <li>Coefficient of friction on driving surface</li> <li>Raw steel sheet</li> <li>0.20 [-]</li> <li>Laminated plastic/wood</li> <li>0.25 [-]</li> <li>Steel roller</li> <li>0.20 [-]</li> <li>Rubberized roller</li> <li>0.30 [-]</li> <li>Max. production width</li> <li>2000 mm</li> <li>79 in.</li> </ul> SUITABLE FOR Food: chocolate bars Food: confectionery Food: slicing machines Packaging						с.		
<ul> <li>Counter-bending roller min. diameter 16 mm 0.6.</li> <li><sup>(2)</sup> The above mentioned values depend on the type of CHIORINO joint recomm</li> <li>Coefficient of friction on driving surface <ul> <li>Raw steel sheet</li> <li>0.20 [-]</li> <li>Laminated plastic/wood</li> <li>0.25 [-]</li> <li>Steel roller</li> <li>0.20 [-]</li> </ul> </li> <li>Rubberized roller</li> <li>0.30 [-]</li> </ul> Max. production width <ul> <li>2000 mm</li> <li>79 in.</li> </ul> SUITABLE FOR Food: chocolate bars Food: confectionery Food: slicing machines Packaging							4 mm	0,16 ii
<ul> <li><sup>(2)</sup> The above mentioned values depend on the type of CHIORINO joint recomm</li> <li>Coefficient of friction on driving surface <ul> <li>Raw steel sheet</li> <li>0.20 [-]</li> <li>Laminated plastic/wood</li> <li>0.25 [-]</li> <li>Steel roller</li> <li>0.20 [-]</li> </ul> </li> <li>Rubberized roller</li> <li>0.30 [-]</li> </ul> Max. production width <ul> <li>2000 mm</li> <li>79 in.</li> </ul> SUITABLE FOR Food: chocolate bars Food: confectionery Food: slicing machines Packaging	B	ending rolle	r min. d	iameter			8 mm	0.31 <sub>ii</sub>
Coefficient of friction on driving surface   Raw steel sheet 0.20 [-]   Laminated plastic/wood 0.25 [-]   Steel roller 0.20 [-]   Rubberized roller 0.30 [-]   Max. production width   2000 mm 79 in.   Food: chocolate bars Food: confectionery Food: slicing machines Packaging								0.63 ii
<ul> <li>Raw steel sheet</li> <li>0.20 [-]</li> <li>Laminated plastic/wood</li> <li>0.25 [-]</li> <li>Steel roller</li> <li>0.20 [-]</li> <li>Rubberized roller</li> <li>0.30 [-]</li> </ul> Max. production width 2000 mm 79 in. SUITABLE FOR Food: chocolate bars Food: confectionery Food: slicing machines Packaging						of CHIC	RINO joint r	ecommend
<ul> <li>Laminated plastic/wood 0.25 [-]</li> <li>Steel roller 0.20 [-]</li> <li>Rubberized roller 0.30 [-]</li> <li>Max. production width 2000 mm 79 in.</li> <li>SUITABLE FOR</li> <li>Food: chocolate bars</li> <li>Food: confectionery</li> <li>Food: slicing machines</li> <li>Packaging</li> </ul>				n driving		[-]		
<ul> <li>Steel roller</li> <li>Rubberized roller</li> <li>0.30 [-]</li> <li>Max. production width</li> <li>2000 mm</li> <li>79 in.</li> <li>SUITABLE FOR</li> <li>Food: chocolate bars</li> <li>Food: confectionery</li> <li>Food: slicing machines</li> <li>Packaging</li> </ul>	_			od				
Max. production width       2000 mm       79 in.         SUITABLE FOR         Food: chocolate bars         Food: confectionery         Food: slicing machines         Packaging								
SUITABLE FOR Food: chocolate bars Food: confectionery Food: slicing machines Packaging	R	ubberized ro	oller		0.30	[-]		
Food: chocolate bars Food: confectionery Food: slicing machines Packaging	Max	. productior	n width		2000	mm	79	in.
Food: confectionery Food: slicing machines Packaging	S	UITABLE F	OR					
PRODUCT CODE NA1598	Foc Foc	od: confection od: slicing m	onery	5				
	PROE	DUCT CODE N	IA1598					



FEATURES					
Humidity influence	no				
Suitable to metal detector					
Permanent antistatic dynamically (UNI EN ISO 21179)	no				
Static conductivity (UNI EN ISO 284)	no				
Conveying on skid bed	yes				
Conveying on rollers	yes				
Conveying on skid bed on top and return	no				
Troughed conveying	no				
Swan neck conveying	no				
Inclined conveying	no				
Accumulators belts	yes				
Curved conveyor	no				
Chemical resistances link	5				

### COMPLIANCES

REACH EC 1907/2006 Regulation and Amendments EC 1935/2004 Regulation and Amendments EC 2023/2006 Regulation and Amendments EU 10/2011, 2023/1442 Regulation and Amendments FDA (Food and Drug Administration) VFGAN



NOTES

Last Update: 13-04-2023

**DISCLAIMER** The information contained in this document describes the features of the CHIORINO product as tested in a laboratory environment at a temperature of +23 degrees °C at 50% relative humidity. It does not necessarily reflect the conditions of industrial use and it does not guarantee the product to be suitable for certain applications. The client remains liable for the proper selection and correct use of the CHIORINO product. CHIORINO cannot be held responsible should damages arise from the use of its products. Necessary alterations to this data can be made without prior notice.

# www.chiorino.com



## **CONVEYOR AND PROCESS BELTS**

## JOINING TECHNICAL DATA SHEET

