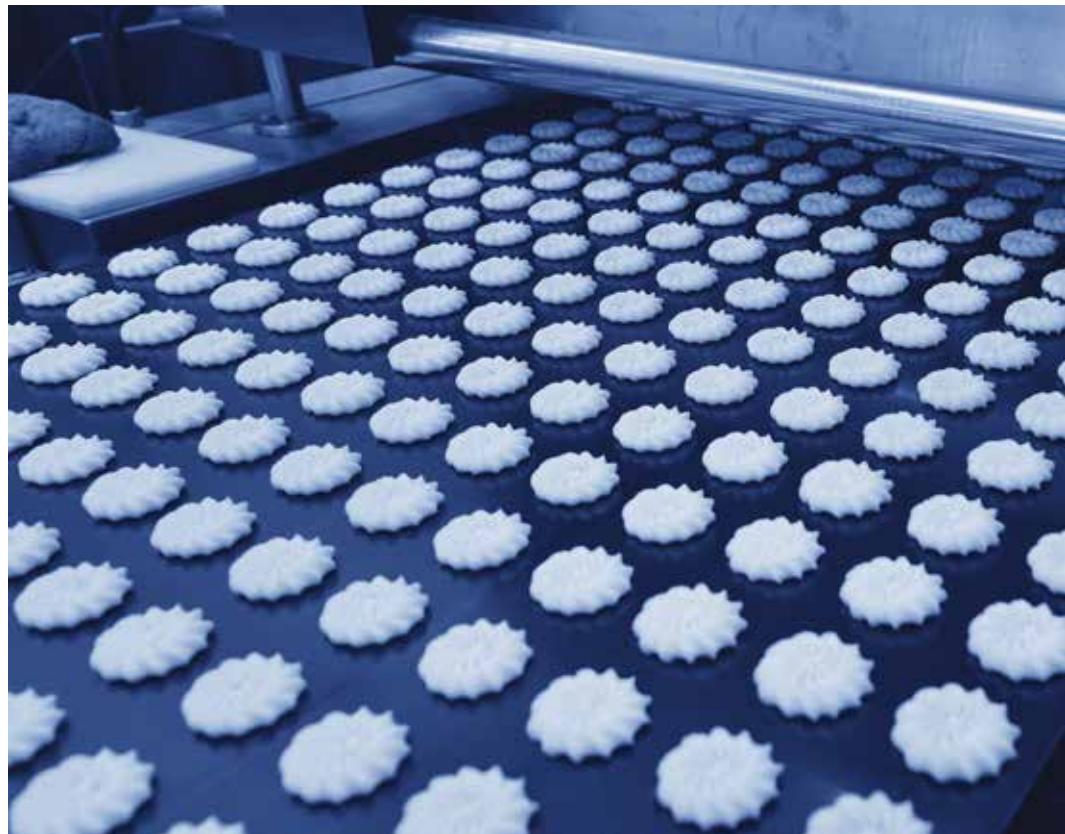


**Your partner  
for food safety**

# Detectable conveyor and process belts





# Detectable conveyor belts



Chiorino DET® is a full range of **food grade metal detectable** products.

The exclusive DET® TPU belt is **recognized** in very **small particles** by the metal detectors used in food processing and packaging.

Chiorino DET® line guarantees a **safest food production** and **prevents products recalls**.

## FEATURES + BENEFITS

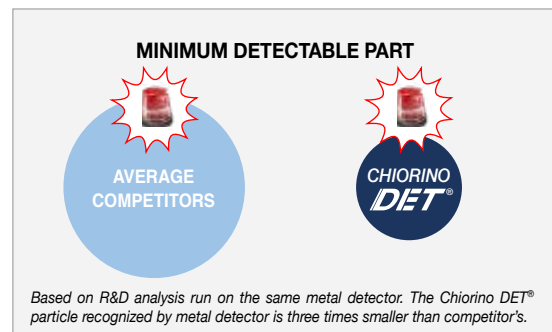
Highest detectability	>	<b>No food contamination</b> <b>Waste reduction</b> <b>Prevent product recalls</b>
Excellent resistance to bacteria proliferation and cleaning procedures Fray-free design	>	<b>Guaranteed food safety</b> <b>No food contamination</b>
Excellent flexibility	>	<b>Ideal for knife edge</b>
Superior resistance to cut, abrasion and aggressive fats and oils	>	<b>Long service life</b>

## DET® Superior detectability +300%

R&D comparison between Chiorino DET® line and average competitors shows that the DET® line is far more detectable: **+ 300%**.

A very small debris of DET® belt is recognized by the metal detector.

The **prompt identification** and removal of the contaminated product assures a **safest food** processing and packaging.



# DET<sup>®</sup> Protections

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Chiorino DET<sup>®</sup> **elastic belts** are successfully used as **components** and **protection parts** in food processing.

Plastic accessories and components are widely used in food production lines, such as:

- Lateral protections
- Machinery sheets
- Dough feeders coatings
- Wheels
- Skids coverings etc.

They're often **not visible** or **not easily reachable** by the operator, as in the aerial conveyors, in closed structure frames or in case of poor layout accessibility.



Chiorino DET<sup>®</sup> protections assure

- **Highest detectability**
- **Total food compliance.**







# DET<sup>®</sup> Customized components

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Chiorino produces DET<sup>®</sup> customized components for particular processing needs, such as AC593 **Wheel blue DET** used for cheese spreading in pizza production.




## Profiles / Guides

	Code	Type	Material	Colour	Dimensions b x h mm	Base	Hardness Sh.	Min. pitch		Min. diameter <sup>1</sup>	
								long. mm	transv. mm	long. mm	transv. mm
	ES751	<b>K6 U blue DET</b>	TPU	dark blue	6 x 3	flat	85 A	40	40	35	---
	ES752	<b>K8 U blue DET</b>	TPU	dark blue	8 x 5	grooved	85 A	40	40	50	---
	ES733	<b>K10 U blue DET</b>	TPU	dark blue	10 x 6	grooved	85 A	40	40	65	---
	ES826	<b>K13 U blue DET</b>	TPU	dark blue	13 x 8	grooved	85 A	45	45	85	80
	ES813	<b>K17 U blue DET</b>	TPU	dark blue	17 x 11	grooved	85 A	45	45	125	120
	ES827	<b>KN13 U blue DET</b>	TPU	dark blue	13 x 8	grooved	85 A	45	45	60	-
	ES814	<b>KN17 U blue DET</b>	TPU	dark blue	17 x 11	grooved	85 A	45	45	120	-
	ES844	<b>S8 U blue DET</b>	TPU	dark blue	8 x 8	grooved	70 A	40	40	70	50
	ES843	<b>S12 U blue DET</b>	TPU	dark blue	12 x 12	grooved	70 A	45	45	100	80
	ES869	<b>T20 U blue DET</b>	TPU	dark blue	10 x 20	flat	85 A	---	45	---	60
	ES870	<b>T30 U blue DET</b>	TPU	dark blue	10 x 30	flat	85 A	---	45	---	60
	ES803	<b>T40 U blue DET</b>	TPU	dark blue	10 x 40	flat	85 A	---	45	---	60
	ES804	<b>T50 U blue DET</b>	TPU	dark blue	10 x 50	flat	85 A	---	45	---	60
	ES871	<b>T60 U blue DET</b>	TPU	dark blue	10 x 60	flat	85 A	---	45	---	60
	ES845	<b>T50 U blue DET 55D</b>	TPU	dark blue	10 x 50	flat	55 D	---	45	---	60

<sup>1</sup> Minimum pulley diameters referred to environment condition of 20 °C

## Sidewalls

	Code	Type	Material	Colour	Dimensions			Hardness Sh.	Thickness mm	Min. diameter <sup>1</sup> mm
					Base mm	Height mm	Pitch mm			
	ES848	<b>C-U 10/20 blue DET</b>	TPU	dark blue	22	20	24	85 A	1.7	50
	ES849	<b>C-U 10/30 blue DET</b>	TPU	dark blue	22	30	24	85 A	1.7	70
	ES850	<b>C-U 10/40 blue DET</b>	TPU	dark blue	22	40	24	85 A	1.7	100
	ES851	<b>C-U 10/50 blue DET</b>	TPU	dark blue	22	50	24	85 A	1.7	120
	ES852	<b>C-U 20/60 blue DET</b>	TPU	dark blue	42	60	50	85 A	1.7	150
	ES853	<b>C-U 20/80 blue DET</b>	TPU	dark blue	42	80	50	85 A	1.7	190

<sup>1</sup> Minimum pulley diameters referred to environment condition of 20 °C

The technical data are valid under normal environmental conditions and are subject to change without notice.



### Certified Food Compliance

To protect Consumer's health, Chiorino DET<sup>®</sup> comply with the latest european and international Food Regulations:

**REGULATION EC 1935/2004** and amendments

**REGULATION EC 2023/2006** and amendments

**REGULATION EU 10/2011** and amendments

**FDA (Food and Drug Administration)**

**HALAL (World Halal Authority)**



## Conveyor belts

Code	Type	Material	Colour	Permanent antistatic	Total thickness	Knife edge min. radius <sup>1</sup>	Min. pulley diameter <sup>1</sup>	Pull for 1% elongation <sup>2</sup>	Temperature resistance °C	
									N/mm	min.
NA1379	<b>EL4-U20 blue DET</b>	TPU	dark blue		2.0	---	10	4 <sup>2</sup>	-30	60
NA1323	<b>EL6-U30 blue DET</b>	TPU	dark blue		3.0	---	20	6 <sup>2</sup>	-30	60
NA1558	<b>1M5 U0-U2 blue DET</b>	TPU	dark blue	•	0.8	4	8	5	-30	100
NA1565	<b>2M5 U0-U0 blue DET</b>	TPU	dark blue	•	1.0	4	8	5	-30	100
NA1373	<b>2M5 U0-U2 blue DET</b>	TPU	dark blue	•	1.3	4	8	5	-30	100
NA1427	<b>2M5 U0-U2 PN blue DET</b>	TPU	dark blue	•	1.6	4	8	5	-30	100
NA1564	<b>2M5 U0-U15 ST blue DET</b>	TPU	dark blue	•	3.5	---	50	5	-30	100
NA1474	<b>2MT5 U0-U2 blue DET</b>	TPU	dark blue	•	1.4	4	8	5	-30	100
NA1526	<b>2M12 U0-U15 LT blue DET</b>	TPU	dark blue	•	6.0	---	50	12	-30	100
NA1374	<b>2T12 U0-U2 blue DET</b>	TPU	dark blue	•	1.6	---	25	12	-30	100
NA1406	<b>3M8 U0-U5 blue DET</b>	TPU	dark blue	•	2.3	---	60	8	-30	100

DET<sup>®</sup> belts can be supplied with **sealed edges**.

<sup>1</sup> Minimum radius / pulley diameter dependent on the joint recommended by Chiorino.  
<sup>2</sup> EL series belts: pull for 8% elongation

## Positive Drive belts

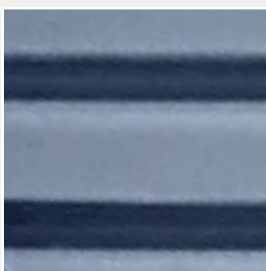
Code	Type	Material	Colour	Total thickness	Pitch	Tooth section b x h	Tooth length	Min. diameter <sup>1</sup>	Pull for 1% elong.	Temperature resistance °C	
										N/mm	min.
NA1482F_D6	<b>Compact Minidrive 15/20 A blue DET</b>	TPU	dark blue	1.5	20	6 x 4	72	20	10	-30	90
NA1461F_D6	<b>Compact Minidrive 15/20 blue DET</b>	TPU	dark blue	1.5	20	6 x 4	72	25	5	-30	90
NA1460C_D13	<b>Compact Drive 25/40 blue DET</b>	TPU	dark blue	2.5	40	13 x 8	72	80	8	-30	90
NA1561C_D13	<b>Compact Drive 25/40 PN blue DET</b>	TPU	dark blue	2.5	40	13 x 8	72	80	8	-30	90

<sup>1</sup> Minimum pulley diameter is dependent on the joint recommended by Chiorino.

## Round belts

Code	Type	Material	Colour	Diameter	Surface	Hardness	Pull for 8% elongation	Min. diameter	Temperature resistance	
									mm	Sh.
ES873	<b>RU-3 blue DET</b>	TPU	dark blue	3	smooth	85 A	18	20	-20	60
ES790	<b>RU-4 blue DET</b>	TPU	dark blue	4	smooth	85 A	30	35	-20	60
ES822	<b>RU-5 blue DET</b>	TPU	dark blue	5	smooth	85 A	50	45	-20	60
ES832	<b>RU-5 R blue DET</b>	TPU	dark blue	5	rough	70 A	50	45	-20	60
ES791	<b>RU-6 blue DET</b>	TPU	dark blue	6	smooth	85 A	70	50	-20	60
ES792	<b>RU-8 blue DET</b>	TPU	dark blue	8	smooth	85 A	130	70	-20	60
ES830	<b>RU-8 R blue DET</b>	TPU	dark blue	8	rough	70 A	130	70	-20	60

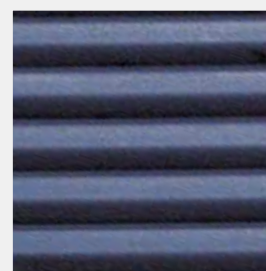
### TEXTURES



LT



PN



ST

## CHIORINO AFFILIATED COMPANIES

### America

CHIORINO AMERICA  
Suwanee, GA  
Tel. +1-302-292-1906  
info@chiorino.us  
www.chiorino.us

### Australia

CHIORINO AUSTRALIA  
Brisbane  
Tel. +61-7-32741900  
sales@chiorino.com.au  
www.chiorino.com.au

### Benelux

CHIORINO BENELUX B.V.  
Utrecht - Netherlands  
Tel. +31-30-2413060  
chiorino@chiorino.nl  
www.chiorino.nl

### Byelorussia

CHIORINO-K  
Minsk  
Tel. +375-17-2804578  
general@chiorino.ru  
www.chiorino.ru

### China

CHIORINO ASIA Ltd.  
Hong Kong  
Tel. +852-397-10818  
info@chiorino.asia  
www.chiorino.asia

### CHIORINO LIAISON OFFICE

Shanghai  
Tel. +86-21-37831019  
info@chiorino.cn  
www.chiorino.cn

### France

CHIORINO SAS  
Lagny, Paris  
Tel. +33-1-64304075  
chiorino.paris@chiorino.fr  
www.chiorino.fr

### Germany

CHIORINO GmbH  
Mainz  
Tel. +49-(0)6131-55449-0  
info@chiorino.de  
www.chiorino.de

### Hungary

CHIORINO Kft.  
Szigetszentmiklós, Budapest  
Tel. +36-24-525930  
mail@chiorino.hu  
www.chiorino.hu

### India

CHIORINO INDIA  
Salcete Goa  
Tel. +918-322-782454  
info@chiorino.in  
www.chiorino.in

### Italy

CHIORINO PARMA s.r.l. - Parma  
Tel. +39-0521-292236  
chiorinoparma@chiorino.com

CHIORINO VENETO s.r.l. - Colle Umberto (TV)  
Tel. +39-0438-430460  
chiorinoveneto@chiorino.com

### Poland

CHIORINO Sp. z o.o.  
Bydgoszcz  
Tel. +48-(0)52-3487708  
chiorino@chiorino.com.pl  
www.chiorino.com.pl

### Portugal

CHIORINO PORTUGAL, LDA  
Alfena Valongo, Porto  
Tel. +351-229684442  
geral@chiorino.pt  
www.chiorino.pt

### Romania

CHIORINO srl  
Sannicoara, Jud.Cluj Napoca  
Tel. +40-264-432977  
chiorino@chiorino.ro  
www.chiorino.ro

### Slovakia

CHIORINO SLOVAKIA s.r.o.  
Nové Zámky  
Tel. +421-910-486654  
info@chiorino.sk  
www.chiorino.sk

### South Africa

CHIORINO SOUTH AFRICA (PTY) LTD.  
Johannesburg  
Tel. +27-11-3971268  
sales@chiorino.co.za  
www.chiorino.com

### Spain

CHIORINO IBERICA S.A.  
Rubí, Barcelona  
Tel. +34-93-5860480  
chiorino@chiorino.es  
www.chiorino.es

### Switzerland

CHIORINO SCHWEIZ GmbH  
Wetzikon  
Tel. +41-(0)43-3116001  
info@chiorino.ch  
www.chiorino.ch

### Ukraine

CHIORINO UKRAINE LLC  
Poltava region, Shcherbani village  
Tel. +38-050806560  
office@chiorino.com.ua  
chiorino.com.ua

### United Kingdom

CHIORINO U.K. Ltd.  
Glasshoughton  
Tel. +44-1977-691880  
sales@chiorino.co.uk  
www.chiorino.co.uk

## CHIORINO DISTRIBUTORS

Albania  
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Vietnam  
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Zimbabwe

## HEADQUARTERS AND PRODUCTION PLANTS

### CHIORINO S.p.A.

Via S. Agata, 9  
I-13900 Biella, Italy  
Tel. +39 015 8489 1  
Fax +39 015 8489 161  
chiorino@chiorino.com  
www.chiorino.com

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