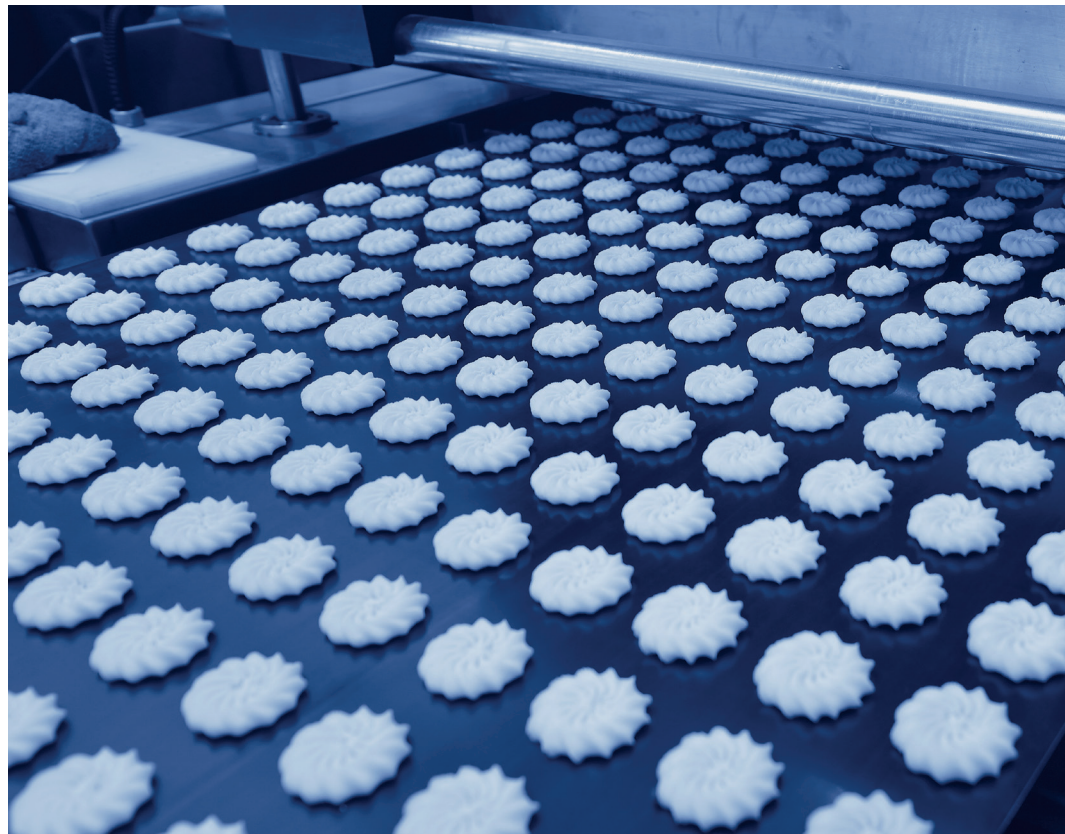


**Your partner  
for food safety**

# Detectable conveyor and process belts



# DET<sup>®</sup>

## Detectable conveyor belts



Chiorino DET<sup>®</sup> is a full range of **food grade metal detectable** products.

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

Chiorino DET<sup>®</sup> line guarantees a **safest food production** and **prevents products recalls**.

### FEATURES

Full compliance with food regulations  
Excellent resistance to bacteria proliferation  
and cleaning procedures

Highest detectability

Excellent flexibility

Superior resistance to cut, abrasion  
and aggressive fats and oils

### + BENEFITS

> **Guaranteed food safety**

> **No food contamination**  
**Waste reduction**  
**Prevent product recalls**

> **Ideal for knife edge**

> **Long service life**

## DET<sup>®</sup> Superior detectability +300%

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

A very small debris of DET<sup>®</sup> belt is recognized by the metal detector.

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

### MINIMUM DETECTABLE PART



Based on R&D analysis run on the same metal detector. The Chiorino DET<sup>®</sup> particle recognized by metal detector is three times smaller than competitor's.

# 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.

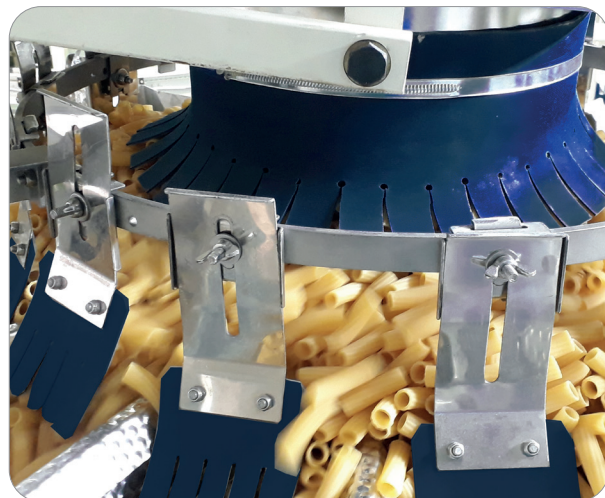
Plastic accessories and components are widely used in food production lines, such as:

- 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

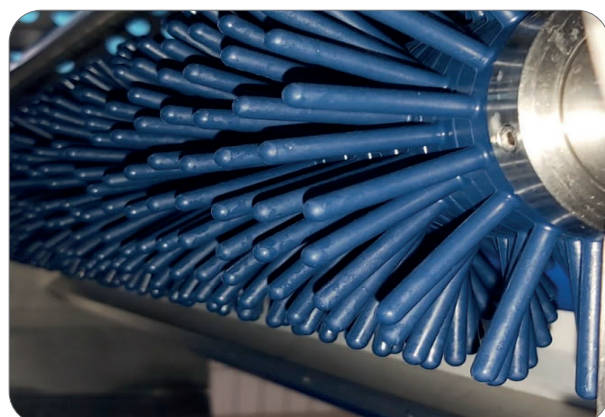
- **Highest detectability**
- **Total food compliance.**



# 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.A	Min. pitch		Min. diameter <sup>(1)</sup>	
								long. mm	transv. mm	long. mm	transv. mm
	ES751	<b>K6 U P blue DET</b>	TPU	dark blue	6 x 3	flat	85	40	40	35	---
	ES752	<b>K8 U blue DET</b>	TPU	dark blue	8 x 5	grooved	85	40	40	50	---
	ES733	<b>K10 U blue DET</b>	TPU	dark blue	10 x 6	grooved	85	40	40	65	---
	ES867	<b>K13 U P blue DET 55MD</b>	TPU	dark blue	13 x 8	flat	55 <sup>(2)</sup>	45	45	85	80
	ES826	<b>K13 U blue DET</b>	TPU	dark blue	13 x 8	grooved	85	45	45	85	80
	ES813	<b>K17 U blue DET</b>	TPU	dark blue	17 x 11	grooved	85	45	45	125	120
	ES827	<b>KN13 U blue DET</b>	TPU	dark blue	13 x 8	grooved	85	45	45	60	-
	ES814	<b>KN17 U blue DET</b>	TPU	dark blue	17 x 11	grooved	85	45	45	120	-
	ES844	<b>S8 U blue DET</b>	TPU	dark blue	8 x 8	grooved	70	40	40	70	50
	ES843	<b>S12 U blue DET</b>	TPU	dark blue	12 x 12	grooved	70	45	45	100	80
	ES803	<b>T40 U blue DET</b>	TPU	dark blue	10 x 40	flat	85	---	45	---	60
	ES804	<b>T50 U blue DET</b>	TPU	dark blue	10 x 50	flat	85	---	45	---	60
	ES845	<b>T50 U blue DET 55D</b>	TPU	dark blue	20 x 50	flat	55 <sup>(2)</sup>	---	45	---	60

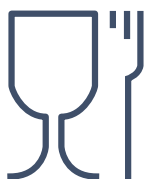
<sup>(1)</sup> Minimum pulley diameters referred to environment condition of 20 °C

<sup>(2)</sup> Sh.D Hardness

## Sidewalls

	Code	Type	Material	Colour	Dimensions			Hardness Sh A	Thickness mm	Min. diameter <sup>1</sup> mm
					Pitch mm	Width mm	Height mm			
	ES848	<b>C-U 10/20 blue DET</b>	TPU	dark blue	24	22	20	85	1.6	50
	ES849	<b>C-U 10/30 blue DET</b>	TPU	dark blue	24	22	30	85	1.6	70
	ES850	<b>C-U 10/40 blue DET</b>	TPU	dark blue	24	22	40	85	1.6	100
	ES851	<b>C-U 10/50 blue DET</b>	TPU	dark blue	24	22	50	85	1.6	120
	ES852	<b>C-U 20/60 blue DET</b>	TPU	dark blue	50	42	60	85	1.6	150
	ES853	<b>C-U 20/80 blue DET</b>	TPU	dark blue	50	42	80	85	1.6	190

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



### Certified Food Compliance

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

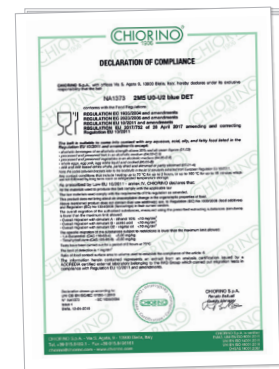
**REGULATION EC 1935/2004** and amendments

**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 mm	Knife edge min. radius <sup>1</sup> mm	Min. pulley diameter <sup>1</sup> mm	Pull for 1% elongation N/mm	Temperature resistance °C	
									min.	max.
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	5	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	80	-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

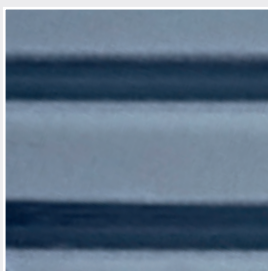
Code	Type	Material	Colour	Total thickness mm	Pitch mm	Tooth section b x h mm	Tooth length mm	Min. diameter <sup>1</sup> mm	Pull for 1% elong. N/mm	Temperature resistance °C	
										min.	max.
NA1482F_D6	<b>Compact Minidrive 15/20 A blue DET</b>	TPU	dark blue	1.5	20	6 x 4	72	20	10	-30	90
NA1461F_D6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

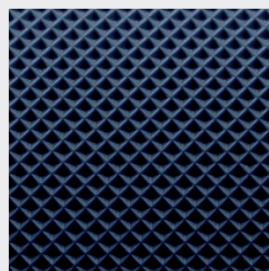
## Round belts

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

### TEXTURES



LT



PN



ST

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