

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



BENEFITS

Highest detectability

No food contamination Waste reduction Prevent product recalls

Excellent resistance to bacteria proliferation and cleaning procedures

Fray-free design

Guaranteed food safety No food contamination

Excellent flexibility

Ideal for knife edge

Superior resistance to cut, abrasion and aggressive fats and oils

Long service life

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.





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



Chiorino DET® **elastic belts** are successfuly 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 visibile** 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® protections assure

- · Highest detectability
- Total food compliance.







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







Profiles / Guides

| | Code | Туре | Material | Colour | Dimensions | Base | Hardness | Min. pitch | | Min. dia | ımeter 1 |
|--|-------|--------------------|----------|-----------|------------|---------|----------|------------|---------|----------|----------|
| | | | | | bxh | | | long. | transv. | long. | transv. |
| | | | | | mm | | Sh. | mm | mm | mm | mm |
| 2, = 1 2 | ES751 | K6 U P blue DET | TPU | dark blue | 6 x 3 | flat | 85 A | 40 | 40 | 35 | |
| | ES752 | K8 U blue DET | TPU | dark blue | 8 x 5 | grooved | 85 A | 40 | 40 | 50 | |
| | ES733 | K10 U blue DET | TPU | dark blue | 10 x 6 | grooved | 85 A | 40 | 40 | 65 | |
| The state of the s | ES826 | K13 U blue DET | TPU | dark blue | 13 x 8 | grooved | 85 A | 45 | 45 | 85 | 80 |
| | ES813 | K17 U blue DET | TPU | dark blue | 17 x 11 | grooved | 85 A | 45 | 45 | 125 | 120 |
| 1 | | | | | | | | | | | * |
| | ES827 | KN13 U blue DET | TPU | dark blue | 13 x 8 | grooved | 85 A | 45 | 45 | 60 | - |
| | ES814 | KN17 U blue DET | TPU | dark blue | 17 x 11 | grooved | 85 A | 45 | 45 | 120 | - |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | ES844 | S8 U blue DET | TPU | dark blue | 8 x 8 | grooved | 70 A | 40 | 40 | 70 | 50 |
| | ES843 | S12 U blue DET | TPU | dark blue | 12 x 12 | grooved | 70 A | 45 | 45 | 100 | 80 |
| | | | | | | | | | | | |
| | ES869 | T20 U blue DET | TPU | dark blue | 10 x 20 | flat | 85 A | | 45 | | 60 |
| | ES870 | T30 U blue DET | TPU | dark blue | 10 x 30 | flat | 85 A | | 45 | | 60 |
| | ES803 | T40 U blue DET | TPU | dark blue | 10 x 40 | flat | 85 A | | 45 | | 60 |
| | ES804 | T50 U blue DET | TPU | dark blue | 10 x 50 | flat | 85 A | | 45 | | 60 |
| | ES871 | T60 U blue DET | TPU | dark blue | 10 x 60 | flat | 85 A | | 45 | | 60 |
| | ES845 | T50 U blue DET 55D | TPU | dark blue | 10 x 50 | flat | 55 D | | 45 | | 60 |

 $^{^{1}}$ Minimum pulley diameters referred to environment condition of 20 $^{\circ}\text{C}$

Sidewalls

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

 $^{^{\}rm 1}$ Minimum pulley diameters referred to environment condition of 20 $^{\rm \circ}{\rm C}$

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® 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)







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

DET® belts can be supplied with sealed edges.

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



Positive Drive belts

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

¹ Minimum pulley diameter is dependent on the joint recommended by Chiorino.



Round belts

| Code | Туре | Material | Colour | Diameter | Surface | Hardness | Pull for 8% elongation | Min. diameter | Tempe resist | erature ance |
|-------|-----------------|----------|-----------|----------|---------|----------|------------------------|------------------|-----------------|-----------------|
| | | | | mm | | Sh. | N | mm | min. °C | max. °C |
| ES873 | RU-3 blue DET | TPU | dark blue | 3 | smooth | 85 A | 18 | 20 | -20 | 60 |
| ES790 | RU-4 blue DET | TPU | dark blue | 4 | smooth | 85 A | 30 | 35 | -20 | 60 |
| ES822 | RU-5 blue DET | TPU | dark blue | 5 | smooth | 85 A | 50 | 45 | -20 | 60 |
| ES832 | RU-5 R blue DET | TPU | dark blue | 5 | rough | 70 A | 50 | 45 | -20 | 60 |
| ES791 | RU-6 blue DET | TPU | dark blue | 6 | smooth | 85 A | 70 | 50 | -20 | 60 |
| ES792 | RU-8 blue DET | TPU | dark blue | 8 | smooth | 85 A | 130 | 70 | -20 | 60 |
| ES830 | RU-8 R blue DET | TPU | dark blue | 8 | rough | 70 A | 130 | 70 | -20 | 60 |

TEXTURES

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