

Antistatic CONTI SYNCHROFLEX® Timing Belts

Characteristics of CONTI SYNCHROFLEX® Antistatic Timing Belts

The antistatic properties of CONTI SYNCHROFLEX® Polyurethane Timing Belts are achieved by:

1. antistatic coating

A post-process application of an electrically conductive coating on all sides of the belts with or without textile facing

2. antistatic polyurethane mixture

A special conductive polyurethane mixture (max. belt length to 700 mm)

Other lengths on request.

Colour of antistatic timing belts: black.

Application / Use

Antistatic CONTI SYNCHROFLEX® Polyurethane Timing Belts are used where electrostatic discharge (ESD) is not desired or is prohibited, e.g. for the transport of electronic components, for drives and/or conveying equipment in an inflammable or explosive environment.

Electrostatic charges

The build up of static electricity, due to the continual separation of two contact surfaces, can be expected where timing belts are involved, e.g. between pulley and timing belt. This static electric charge can be considerable and may increase the danger of ignition at the moment of discharge. The value of the static electric charge is dependent on the materials used for the timing belt, synchronous pulleys, tension rollers and/or support rollers. The risk of ESD rises as the belt speed, belt tension and the contact surface width increase.

Antistatic properties

Antistatic CONTI SYNCHROFLEX® Polyurethane Timing Belts consistently avoid the formation of static electric charges.

Quality assurance

Conductivity is measured using test equipment meeting ISO 9563 requirements. Upon request, the wear resistance of the antistatic layer can be checked on test timing belts with an antistatic facing. Due to the fact that extended operation will result in probable surface wear, the conductivity of the antistatic timing belts may deteriorate and regular checks of the resistance values are essential. When belts are to be used in environments with a high likelihood of explosion, please contact our technical specialists for advice.

Order example

CONTI SYNCHROFLEX® Timing Belt 25 T 5 / 630 EL-PU antistatic coated

For available lengths, please contact your Mulco sales partner.

