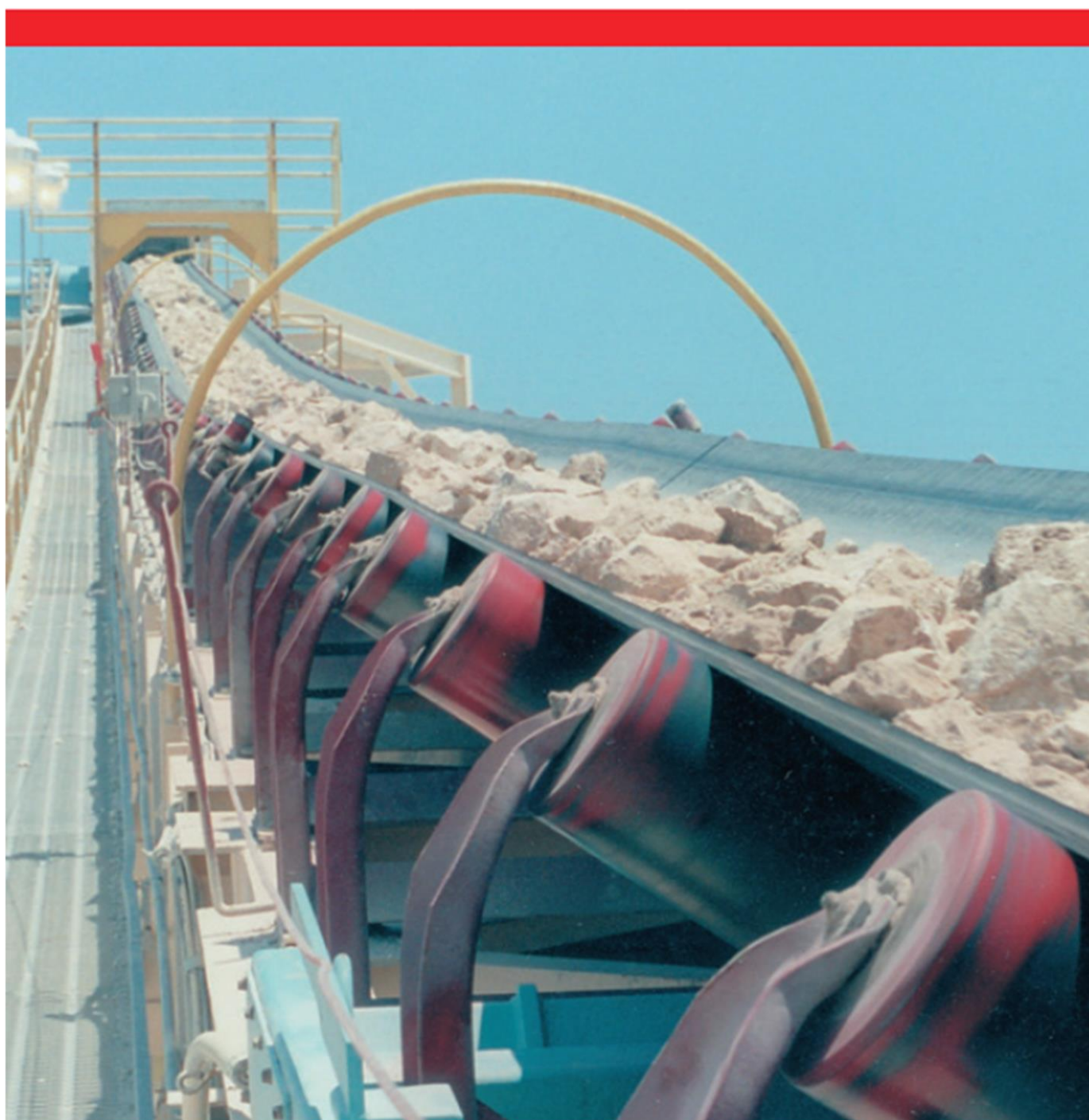


TEXTER[®]



Conveyor belting

EP inside: POLYESTER - NYLON MULTIPLY



PRODUCT DESCRIPTION

Rubber conveyor belting is the cheapest system to convey bulk solid materials over any distance. It is the topic item of a conveyor system that allows the material handling. All rubber conveyor belts are composed by two different elements:

- A central resistant carcass, which gives the mechanical characteristics to the product, as tensile strength and elongation. Two main belting families exist: textile - as shown in this catalogue - and steel cord conveyor belts.
- Two rubber covers, named top and bottom covers, which protect the resistant carcass and characterize the belt, as described in this page.

In order to guarantee safety and long life, also under hard working conditions, all type of rubber covers are antistatic and ozone protected. These pages aim to help you for the selection of the proper cover compounds according to the specific use and the characteristics of the conveyed material.



COVER CHARACTERISTICS

ABRASION SERVICE:

- **CL (L grade ISO 10247 - Y grade DIN 22102 - RMA II grade) - Standard abrasion resistant compound.** CL is a cover rubber recommended for all ground applications and for the majority part of the materials, where resistance to abrasion is required. Conveyor belts with CL compound are suitable to handle heavy and/or abrasive materials such as gravel, stone, sand, aggregates, coal, cement, etc.
- **EC (D grade ISO 10247 - W grade DIN 22102 - RMA I grade) - Extra abrasion resistant compound.** EC is a superior quality cover rubber, especially designed where maximum resistance to abrasion is required. The characteristics of resistance to cut, tear and ozone cracking, together with long duration, improve the quality of this cover. EC is expressly recommended for steel works and iron mines; however, it is recommended for heavy lump ore, coke, salt, limestone too.
- **SC (H grade ISO 10247 - X grade DIN 22102) – Superior cutting resistance compound.** SC is a cover rubber designed for specific use when the resistance to cut and tear is the most important requirement. SC also guarantees high abrasion resistance. Main applications are quartz and cullet conveyance.
- **AS - Rubber cover for extreme applications.** AS rubber cover is studied to offer the maximum abrasion resistance in all the applications, where an increase in the standard abrasion resistant conveyor's service life is required. Moreover, its excellent mechanical characteristics allow a superior tearing and cut resistance, which permits its use with heavy materials, i.e. big-sized

minerals, bauxite, etc. or in critical working situations characterized by atypical loading/unloading systems.

- **AS grants and surpasses grade W - DIN 22102 and D - ISO 10247** assuring an abrasion resistance of 30-50 mm³.

FIRE RESISTANT:

- **Self-extinguish product.** BS is a product designed to service both underground and above ground application where safety is fundamental and fire risk is high. It is recommended in particular for coal and potash applications. BS is self-extinguish and antistatic according to ISO 340 and ISO 284 or equivalent.
- **TS (S grade DIN 22102, class 2B EN 12882) - Self-extinguish product.** TS is a product typology designed to service both underground and above ground applications. It is highly recommended for the belt conveyors located in the back areas of the tunnels. TS is designed according to ISO 340 and ISO 284 or equivalent.
- **TV (V grade DIN 22109, class 4 and 5 EN 12882) - Fireproof product.** TV is a belt typology designed to work in underground applications where it is necessary that the belt does not burn and does not trigger centres of fire. It is recommended for the belt conveyors located close to the permanent work-stations in the tunnels. TV is designed according to ISO 340, ISO 284, EN 14973 or equivalent.
- **AG (K+G grade DIN 22102, class 2A EN 12882) - Self-extinguish and oil resistant product.** AG is a nitrile rubber suitable for conveyor belts and bucket elevator systems of cereal terminals and silos. AG cover rubber provides superior resistances to vegetable oils and animal fats; it is also self-extinguish and antistatic according to ISO 340 and ISO 284, or equivalent in order to guarantee high safety to the conveyor plant.



OIL SERVICE:

- **OM (G grade DIN 22102) - Vegetable oil resistance compound.** OM is a cover rubber that guarantees a good belt resistance against the chemically aggressive effects due to the transport of materials with moderate oil presence, like corn, fertilizers and general vegetable oily materials. OM is expressly designed to resist the terpene of wooden chips and to convey solid urban waste materials.
- **OH - High oil resistance compound.** OH is a premium quality cover rubber with maximum resistance to oils and characterized by low volume variations after immersion in highly aggressive mineral oils. OH is expressly realized for belts conveying materials sodden with mineral oils, as for example the mechanical manufacturing rejects.

- **PL - Oil and heat resistant compound.** PL is a compound specifically designed to handle pet coke during the production process when material can reach temperatures of 120 °C. The composition based on nitrile compound assures good oil resistance, too.

HEAT SERVICE:

- **CX - Medium temperature resistance.** CX is a rubber compound assuring a medium degree of abrasion resistance; it is formulated for continuous service with hot coarse materials at a temperature of 130 °C with peaks of 150 °C.
- **MX - High temperature resistance.** MX is a rubber compound assuring a good abrasion resistance. It is designed for continuous service at temperature of 150 °C with peaks of 180 °C.
- **TX - Superior temperature resistance.** TX is a cover rubber that assures the maximum heat resistance for a rubber compound. It is designed to resist with coarse materials at a maximum working temperature of 200 °C with peaks of 300 °C.

PLEASE NOTE THAT: All types of conveyor belts produced by SIG SpA are realized according to ISO standards; furthermore, they meet also the requirements of equivalent UNI, DIN, BS, NF, ASTM and RMA standards.

COVER SELECTION

	Abrasion service			Heat service			Oil service			Fire resistant	
	CL	EC	AS	CX	MX	TX	OM	OH	PL	AG	BS
Abrasion	★★★	★★★★	★★★★	★★★	★★★	★★★	★	★	★	★	★★★
Cut & tear	★★★	★★★★	★★★	★★	★★	★★	★★	★★	★★	★★	★★★
Fire	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	★★★★	★★★★
Animal & vegetable oils	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	★★★★	★★★★	★★★★	★★★★	N.A.
Mineral oils	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	★★★	★★★★	★★★	★★	N.A.
CONTINUOUS WORKING SERVICE °C											
	70	70	70	130	150	200	70	70	120	70	70
MAXIMUM PEAKS OF TEMPERATURE °C											
	90	90	90	150	180	300	90	90	130	90	90
MINIMUM WORKING TEMPERATURES °C											
	-40	-50	-40	-40	-40	-30	-35	-25	-30	-25	-40

N.A. not applicable; ★ fair; ★★ good; ★★★ very good; ★★★★ excellent.

TEXTER TECHNICAL DATA

Belt Style (Tensile strength) KN/m	Number of plies	Max working tension		Carcass		Fabric range N/mm
		Vulcanized N/mm	Fastened N/mm	Weight (Average) Kg/m ²	Thickness (± 5%) mm	
250/2	2	25	20	2,2	1,9	125
315/2	2	32	25	2,7	2,3	160
400/3	3	40	32	3,3	2,9	125
500/3	3	50	40	4,1	3,5	160
500/4	4	50	40	4,4	3,8	125
630/3	3	63	50	4,9	4,0	200
630/4	4	63	50	5,4	4,6	160
800/3	3	80	63	6,0	4,9	250
800/4	4	80	63	6,5	5,4	200
1000/3	3	100	80	7,1	5,7	315
1000/4	4	100	80	8,0	6,4	250
1000/5	5	100	80	8,1	6,8	200
1250/3	3	125	—	9,0	6,9	400
1250/4	4	125	—	9,5	7,6	315
1250/5	5	125	—	10,0	8,0	250
1600/4	4	160	—	11,9	9,2	400
1600/5	5	160	—	11,9	9,5	315
2000/4	4	200	—	15,0	11,4	500
2000/5	5	200	—	15,0	11,4	400
2500/5	5	250	—	18,7	14,2	500
3150/6	6	315	—	22,3	17,4	500

Total thickness = Carcass thickness + Cover thickness

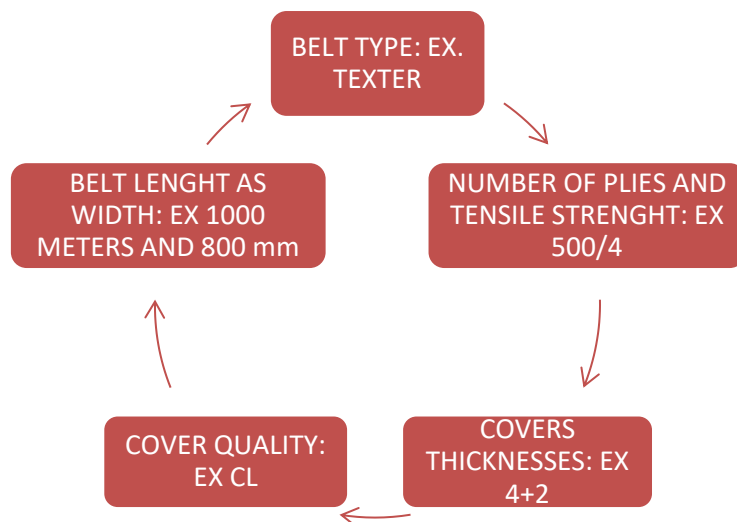
Total weight for m² = Carcass weight (above table) + cover weight (below table)

COVER WEIGHT kg/m²

Quality	Cover thickness							
	1 mm	2 mm	3 mm	4 mm	5 mm	6 mm	7 mm	8 mm
CL	1,18	2,36	3,54	4,72	5,90	7,08	8,26	9,44
EC	1,15	2,30	3,45	4,60	5,75	6,90	8,05	9,20
SC	1,12	2,24	3,36	4,48	5,60	6,72	7,84	8,96
AS	1,12	2,24	3,36	4,48	5,60	6,72	7,84	8,96
BS	1,30	2,60	3,90	5,20	6,50	7,80	9,10	10,40
AG	1,35	2,70	4,05	5,40	6,75	8,10	9,45	10,80
OH	1,25	2,50	3,75	5,00	6,25	7,50	8,75	10,00
OM	1,25	2,50	3,75	5,00	6,25	7,50	8,75	10,00
PL	1,25	2,50	3,75	5,00	6,25	7,50	8,75	10,00
CX	1,15	2,30	3,45	4,60	5,75	6,90	8,05	9,20
MX	1,15	2,30	3,45	4,60	5,75	6,90	8,05	9,20
TX	1,10	2,20	3,30	4,40	5,50	6,60	7,70	8,80

ELEMENTS FOR THE ORDED

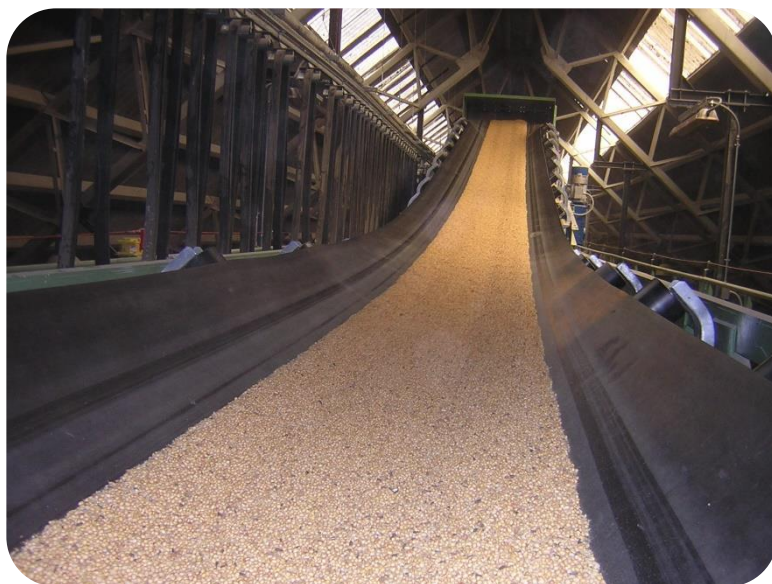
Let's come to an important moment: making an order. In the aim of avoiding any kind of errors or misunderstandings, we suggest using the belt designation of these examples:



SIG deeply takes care of its clients, providing them with the best products available on the market. As a matter of facts, our technical laboratory is continuously working to improve our working processes as technologies, aiming at meeting all the international specific requests.

SIG TEXTER are suitable to be working in many industrial fields: from the agro-industrial one, to the ones of mining as bulk and material handling.

We will provide you with the best solutions, always moving towards future and innovation.



MAIN ADVANTAGES

What are all the crucial advantages coming from using a TEXTER made in SIG?

- **Polyester - Nylon carcass** which allows the belt to reach a maximum flexibility
- **Available both with cut or moulded edges**
- **Excellent adhesion between plies and covers** increasing belt life
- **Wide selection of cover compounds** meeting any of your working requirements
- **Very low permanent elongations** reducing maintenance cost
- **Maximum load support** assuring perfect working reliability
- **High resistance to work at heavy conditions:** high and low temperature, abrasive and oil materials and also in presence of fire
- **Good impact resistance** making it suitable to work in the heavy industry

Our TEXTER are all designed to provide high efficiency at lower cost, maximizing your choice.

Never forget that SIG is the leading Italian manufacturer of rubber conveyor & elevator belts: once you have tasted our unbeatable made in Italy, you will not forget it!





Italian leading manufacturer, but world wide supplier: just SIG!
 Visit our web site : www.sig.it and follow us on LinkedIn

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