



QUARRY-FLEX® CONVEYOR BELTING

**THE BEST IMPACT
AND RIP RESISTANT
CONVEYOR BELTING**

Need Solutions...*to improve efficiency, safety and productivity?* **ask... ASGCO®**

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QUARRY-FLEX® CONVEYOR BELTING

THE TOUGHEST BELT WITH THE BEST SPLICE AND WARRANTY IN THE INDUSTRY!

ASGCO®'s QUARRY-FLEX® straight warp conveyor belt is engineered to provide excellent rip, tear and impact resistance as seen in hard rock mining (limestone, granite, trap rock and other aggregates) and recycling applications.

The unique construction of the belt and the special cushion and cover rubber ensure superior impact resistance, higher longitudinal flexibility of the belt, yet guaranteeing a very low elongation at working load compared to conventional EP/NN fabric belts.

In several applications, QUARRY-FLEX® belts are a preferred alternative to steel cord belts as they provide an inherent protection against rip and tear and at the same time offer excellent impact resistance and low elongation in service.

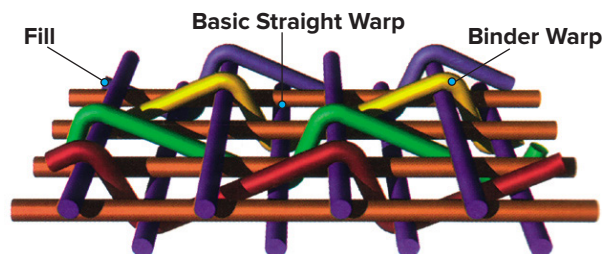
- Impact and rip resistance up to three times of standard multi-ply belts of equivalent rating.
- High strength and minimal stretch or elongation when conveying large loads.
- Safety factor greater than 10:1.
- A1™ (ARPM Grade 1) cover compound is designed for high impact applications where cutting, gouging and tearing of the cover is a primary concern.

PRODUCT APPLICATIONS

QUARRY-FLEX® Belt is ideally suited for the following applications:

- Heavy impact applications e.g. primary crushers
- Material fall height exceeding 6.5' (2m)
- Lump size more than 4" (100mm)
- Long haul applications
- Conveyors susceptible to presence of tramp material

STRAIGHTWARP



ASGCO® **QUARRY-FLEX®** belts are manufactured using a specially designed fabric having high tenacity, straight warp threads and dense weft yarn construction. These belts are available in single or two ply constructions and in strength rating from 180 to 1800 PIW i.e. 315 to 3150 kN/m.

| | |
|---------------------------|--|
| Compound Widths | 24" to 72" Wider Available on Request |
| Carcass Variety Available | Straight Wrap |
| Common Belt Rating | 1-Ply Construction: 180/1, 220/1, 280/1, 330/1, 440/1 & 550/1 PIW 2-Ply Construction: 330/2, 440/2, 660/2, 800/2, 1000/2 & 1200/2 PIW More available on application |
| Number of Plies | 1-Ply or 2-Ply |
| Rubber Cover Compound | Refer Quarry Kevlar & Quarry Flex Compound Table |
| Rubber Cover Thickness | For 1-Ply Belts: 2:1 Cover Ratio (min 1/8" bottom cover) For 2-Ply Belts: 3:1 Cover Ratio (min 1/8" bottom cover) |
| Edge | Cut Edge / Mold Edge |
| Splicing Method | Vulcanizing / Mechanical |
| Packing Available in | Single Roll or Cassette |
| Belt Identification | Unique Product Identification Number (Pin) Every 33' ft |

QUARRY-FLEX®
Heavy Duty Straightwarp Conveyor Belting

| Carcass Style | 1-330 | | 1 - 440 | | 2 - 500 | | 2 - 660 | | 2 - 800 | | 2 - 1000 | | 2 - 1200 | | 2-1500 | |
|---|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|---------|
| Number of Plies | 1 | | 1 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | |
| Description | Imperial | Metric | Imperial | Metric | Imperial | Metric | Imperial | Metric | Imperial | Metric | Imperial | Metric | Imperial | Metric | Imperial | Metric |
| Carcass Gauge (in/mm) | 0.132 | 3.34 | 0.152 | 3.85 | 0.244 | 6.2 | 0.244 | 6.2 | 0.268 | 6.8 | 0.327 | 8.3 | 0.386 | 9.8 | 0.446 | 11.3 |
| Carcass Weight (lb/in/ft / kg/m) | 0.041 | 2.42 | 0.056 | 3.3 | 0.103 | 6.07 | 0.104 | 6.1 | 0.103 | 6.06 | 0.136 | 8 | 0.158 | 9.3 | 0.188 | 11.05 |
| Elastic Modulus (lbs/N/mm) | 40,000 | 7,1000 | 77,658 | 13,600 | 50,000 | 87.50 | 116,487 | 20,400 | 135,901 | 23,800 | 194,145 | 34,000 | 242,681 | 42,500 | 90,000 | 513,912 |
| Max Tension Rating (PIW / N/mm) | 330 | 600 | 440 | 800 | 550 | 1000 | 660 | 1200 | 800 | 1400 | 1200 | 2000 | 1200 | 2500 | 1500 | 3100 |
| Troughing/Empty-Min Belt Width (in/mm) | | | | | | | | | | | | | | | | |
| 20° idlers | 20 | 500 | 24 | 600 | 24 | 600 | 30 | 750 | 30 | 750 | 30 | 750 | 30 | 750 | 30 | 750 |
| 35° idlers | 24 | 600 | 30 | 750 | 30 | 750 | 36 | 900 | 36 | 900 | 36 | 900 | 36 | 900 | 36 | 900 |
| 45° idlers | 30 | 750 | 36 | 900 | 36 | 900 | 36 | 900 | 42 | 1050 | 42 | 1050 | 42 | 1050 | 42 | 1050 |
| Load Support - Max Belt Width (in/mm) | | | | | | | | | | | | | | | | |
| 20° idlers (0-40 lbs/ft / 0-640 kg/m) | 72 | 1800 | 84 | 2100 | 84 | 2100 | 72 | 1800 | 72 | 1800 | 84 | 2100 | 96 | 2400 | 84 | 2100 |
| 20° idlers (41-80 lbs/ft / 641-1280 kg/m) | 66 | 1670 | 72 | 1800 | 84 | 2100 | 72 | 1800 | 72 | 1800 | 84 | 2100 | 96 | 2400 | 84 | 2100 |
| 20° idlers (81-120 lbs/ft / 1281 - 1920 kg/m) | 60 | 1500 | 66 | 1670 | 84 | 2100 | 72 | 1800 | 72 | 1800 | 84 | 2100 | 96 | 2400 | 84 | 2100 |
| 35° idlers (0-40 lbs/ft / 0-640 kg/m) | 66 | 1700 | 72 | 1800 | 84 | 2100 | 72 | 1800 | 72 | 1800 | 84 | 2100 | 96 | 2400 | 84 | 2100 |
| 35° idlers (41-80 lbs/ft / 641-1280 kg/m) | 30 | 760 | 60 | 1500 | 72 | 1800 | 72 | 1800 | 72 | 1800 | 96 | 2400 | 96 | 2400 | 84 | 2100 |
| 35° idlers (81-120 lbs/ft / 1281 - 1920 kg/m) | 24 | 600 | 54 | 1400 | 66 | 1700 | 60 | 1500 | 60 | 1500 | 96 | 2400 | 96 | 2400 | 84 | 2100 |
| Minimum Pulley Diameters (in/mm) | | | | | | | | | | | | | | | | |
| 81 - 100% belt rated tension | 14 | 360 | 20 | 500 | 24 | 600 | 30 | 800 | 30 | 800 | 42 | 1050 | 48 | 1200 | 36 | 900 |
| 61 - 80% belt rated tension | 12 | 300 | 16 | 400 | 20 | 500 | 24 | 600 | 24 | 600 | 30 | 750 | 42 | 1050 | 30 | 750 |
| Up to 60% belt rated tension | 9 | 220 | 12 | 300 | 15 | 380 | 20 | 500 | 20 | 500 | 24 | 600 | 30 | 750 | 24 | 600 |

COVER COMPOUNDS

AR1 (ARPM Grade 1)

- Cover compound is designed for high impact applications, where cutting, gouging and tearing of the covers is a primary concern.
- Ultimate high tensile strength rubber compounds that combines the best of impact and abrasion resistance.
- Meets ASTM DIN W (90 mm³) standard specification which exceeds RMA Grade 1 requirements.

AR2 (ARPM GRADE II)

- Cover compound is designed for good abrasion, cut and gouge resistance.
- Recommended for most abrasive conveying applications, such as aggregates, limestone, recycling, sand and gravel.
- Meets ASTM (150 mm³) standard specification which exceeds RMA Grade II requirements.

FR2 (ARPM GRADE II)

- Fire retardant/abrasion resistant compound that meets ARPM-FR Class 2
- Recommended for power generation facilities, above ground coal or non-coal mining and coal prep plants.
- FR2 is fully ozone, UV and abrasion resistant.

HT2 (ARPM GRADE II)

- Recommended for cement, clinker, frac sand, refineries, mineral processing and chemical plants.



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