

## MineFlex STRONG - Fire Boss® SAFE.

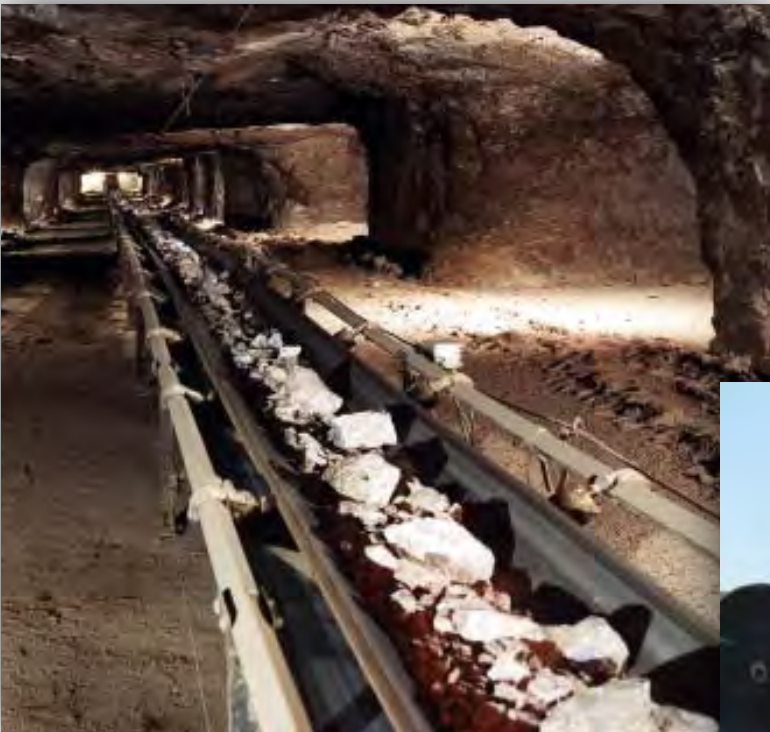
**MineFlex** combines a unique Fenner Dunlop developed straight-warp carcass with specially compounded MSHA CFR Title 30, Part 14 certified Fire Boss covers for underground mining applications. You can expect fire retardant properties which meet and exceed MSHA requirements coupled with unsurpassed resistance to impact, puncture, rip and tear. Fenner Dunlop puts safety first by manufacturing MineFlex STRONG and Fire Boss SAFE to protect your employees and your conveyor belting investment.

### Markets & Applications:

- **Coal**
- **Hard rock and minerals**
- **Metals**
- **Overland/transfers**
- **Loadouts**
- **Coal preparation plants**

### Reasons to Count on MineFlex

- MineFlex offers MSHA certified Fire Boss cover compounds for ultimate fire retardance
- Superior troughability, tracking and load support
- Unsurpassed impact resistance up to 3 times greater than traditional plied belting
- Up to 3 times more longitudinal rip resistance than standard plied belting constructions
- Greater flexibility than plied belts
- Available in single or dual unit carcass constructions
- Superior adhesions giving longer product life in difficult applications
- Resistant to moisture, mildew and acid mine water
- State-of-the-art Fenner Dunlop developed Finger Splice Technology prolongs splice life and decreases unplanned belt maintenance



# MineFlex SPECIFICATION TABLE – “Imperial & Metric”

## Imperial

Carcass Style	MF S5	MF D5	MF D6	MF D8	MF D10	MF D12	MF D15
Number of Plies	1	2	2	2	2	2	2
Carcass Gauge <sup>3</sup> (in)	.169	.234	.270	.300	.320	.388	.439
Carcass Weight <sup>4</sup> (lb/in/ft)	.058	.108	.124	.136	.150	.174	.203
Elastic Modulus (lbs/in)	50000	58000	50000	60000	70000	85000	92000
Max Tension Rating <sup>2</sup> (PIW)	550	550	660	800	1000	1250	1500
<b>Troughing/Empty<sup>1</sup> - Min Belt Width (in)</b>							
20 degree idlers	24	24	24	30	30	30	30
35 degree idlers	30	30	30	36	36	36	36
45 degree idlers	36	36	36	42	42	42	42
<b>Load Support<sup>1</sup> – Max Belt Width (in)</b>							
20 deg idlers 41 – 80 lbs/ft <sup>3</sup>	72	84	84	96	96	96	96
35 deg idlers 41 – 80 lbs/ft <sup>3</sup>	66	72	84	96	96	96	96
45 deg idlers 41 – 80 lbs/ft <sup>3</sup>	60	72	84	96	96	96	96
<b>Minimum Pulley Diameters (in)</b>							
81 – 100% belt rated tension	20	24	30	36	36	36	36
61 – 80% belt rated tension	18	20	24	24	30	30	30
Up to 60% belt rated tension	16	18	20	20	24	24	24

- 1 Troughability and Load Support values can be influenced by certain cover gauge and compound combinations used. When in doubt, please contact your FDA representative for selection guidance.
- 2 MineFlex tension ratings reflect a minimum 10:1 safety factor through the 660 PIW offerings, and an 8:1 minimum safety factor for the remaining higher tension offerings. With the appropriate fastener selection and installation, 4:1 minimum mechanical fastener safety factors can be achieved.

- 3 Add the appropriate cover gauge to this carcass gauge to obtain the approximate overall belt thickness.
- 4 Add the appropriate cover weight to this carcass weight to obtain the appropriate overall belt weight.
- 5 For a complete listing of available MineFlex products and specifications, please contact your FDA representative.

## Metric

Carcass Style	MF S5	MF D5	MF D6	MF D8	MF D10	MF D12	MF D15
Number of Plies	1	2	2	2	2	2	2
Carcass Gauge <sup>3</sup> (mm)	4.3	6.0	6.9	7.6	8.1	9.9	11.2
Carcass Weight <sup>4</sup> (kg/m <sup>2</sup> )	3.2	6.3	7.3	8.0	8.8	10.2	11.9
Elastic Modulus (N/mm)	8750	10125	8750	10500	12250	14875	16125
Max Tension Rating <sup>2</sup> (N/mm)	97	97	116	140	175	219	263
<b>Troughing/Empty<sup>1</sup> - Min Belt Width (mm)</b>							
20 degree idlers	600	600	600	750	750	750	750
35 degree idlers	750	750	750	900	900	900	900
45 degree idlers	900	900	900	1050	1050	1050	1050
<b>Load Support<sup>1</sup> – Max Belt Width (mm)</b>							
20 deg idlers 641 – 1280 kg/m <sup>3</sup>	1800	2150	2150	2450	2450	2450	2450
35 deg idlers 641 – 1280 kg/m <sup>3</sup>	1700	1800	2150	2450	2450	2450	2450
45 deg idlers 641 – 1280 kg/m <sup>3</sup>	1500	1800	2150	2450	2450	2450	2450
<b>Minimum Pulley Diameters (mm)</b>							
81 – 100% belt rated tension	500	600	750	900	900	900	900
61 – 80% belt rated tension	450	500	600	600	750	750	750
Up to 60% belt rated tension	400	450	500	500	600	600	600

- 1 Troughability and Load Support values can be influenced by certain cover gauge and compound combinations used. When in doubt, please contact your FDA representative for selection guidance.
- 2 MineFlex tensions reflect a minimum 10:1 safety factor through the 116 N/mm rated offerings, and an 8:1 minimum safety factor for the remaining higher tension offerings. With the appropriate fastener selection and installation, 4:1 minimum mechanical fastener safety factors can be achieved.

- 3 Add the appropriate cover gauge to this carcass gauge to obtain the approximate overall belt thickness.
- 4 Add the appropriate cover weight to this carcass weight to obtain the appropriate overall belt weight.
- 5 For a complete listing of available MineFlex products and specifications, please contact your FDA representative.