

# MINING

## MINING



AIR &  
MULTIPURPOSE  
*General Purpose*  
*Heavy Duty*  
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|  | Page | Thermoplastic | Rubber | MSHA | Temp Range     | Static Dissipating Tube |
|--|------|---------------|--------|------|----------------|-------------------------|
| Brigade™ Mine                          | 128  | Yes           |        | Yes  | -10°F to 150°F |                         |
| Flextra® Rock Dust                     | 129  |               | Yes    | Yes  | -25°F to 200°F | Yes                     |
| M&P Mine Conduit                       | 130  |               | Yes    | Yes  | -20°F to 200°F |                         |
| Mine Spray                             | 127  |               | Yes    | Yes  | 0°F to 200°F   |                         |
| Plicord® Ammonium Nitrate Pellet       | 131  |               | Yes    |      | -25°F to 200°F | Yes                     |
| Plicord® Mine Conduit                  | 132  |               | Yes    | Yes  | -40°F to 200°F |                         |
| Spiraflex® Rock Dust - Yellow Cover    | 134  | Yes           |        | Yes  | 0°F to 158°F   |                         |
| Spiraflex® Cable Guard                 | 133  | Yes           |        | Yes  | 0°F to 150°F   |                         |
| Spiraflex® Red                         | 207  | Yes           |        | Yes  | -10°F to 150°F |                         |
| Spiraflex® Yellow                      | 208  | Yes           |        | Yes  | -10°F to 150°F |                         |
| TunnelCote™<br>Rock Dust - Black Cover | 135  |               | Yes    | Yes  | -25°F to 200°F | Yes                     |

## MINE SPRAY



### Product Specifications

- APPLICATION:** For general underground water spray service in dust control applications. It is also used on continuous mining machinery at the headface and on other mechanical mining machines.
- CONSTRUCTION TUBE:** Nitrile synthetic rubber RMA Class B (medium oil resistance)
- COVER:** Yellow Chemivic™ synthetic rubber RMA Class B (medium oil resistance) (Meets flame test requirements of MSHA Schedule 26-Section 18.65), smooth finish
- REINFORCEMENT:** Braided (1) steel wire
- TEMPERATURE:** 0°F to 200°F (-18°C to 93°C)
- PACKAGING:**
  - 3/4" 500' reels or 50' cut lengths, 20 pieces per carton
  - 1" 500' reels or 50' cut lengths, 12 pieces per carton
  - 1¼" 500' reels or 50' cut lengths, 8 pieces per carton
  - 1½" 300' reels or 50' cut lengths, 6 pieces per carton
  - 2" 50' cut lengths, 4 pieces per carton
- BRANDING:** Example: Goodyear® 1" Mine Spray 1000 psi WP, Fire-Resistant, USMSHA IC-11/9. Made in USA.
- COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.
- NON-STOCKSIZES:** Refer to page 311 for special production run minimum requirements.
- ORDER CODES:** 539-421

### MINE SPRAY

| ID  |      | NOM. OD |      | MAX. WP |     | WEIGHT  |        |
|-----|------|---------|------|---------|-----|---------|--------|
| in. | mm.  | in.     | mm.  | psi     | Mpa | lb./ft. | kg./m. |
| 3/4 | 19.1 | 1.14    | 29.0 | 1000    | 6.9 | 0.44    | 0.65   |
| 1   | 25.4 | 1.45    | 36.8 | 1000    | 6.9 | 0.63    | 0.94   |
| 1¼  | 31.8 | 1.75    | 44.5 | 1000    | 6.9 | 0.86    | 1.28   |
| 1½  | 38.1 | 1.98    | 50.3 | 1000    | 6.9 | 1.08    | 1.61   |
| 2   | 50.8 | 2.55    | 64.8 | 1000    | 6.9 | 1.57    | 2.34   |

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## BRIGADE™ MINE

GOODYEAR BRIGADE MINE FLAME-RESISTANT



### Product Specifications

**APPLICATION:** For use as a mine fire protection hose in underground mines.

**CONSTRUCTION**  
**TUBE:** Black fire-resistant Pliovic®

**COVER:** Orange fire-resistant Pliovic

**REINFORCEMENT:** Spiral synthetic yarn

**TEMPERATURE:** -10°F to 150°F (-23°C to 66°C)

**PACKAGING:** 1½" 500' continuous one piece, coiled and banded  
2" 400' continuous one piece, coiled and banded  
2½" 300' continuous one piece, coiled and banded

**BRANDING (SPIRAL):** Example: Goodyear® Brigade Mine Flame-Resistant. USMSHA No. 2G14. 2" (52.6mm) 150 psi (1.03 Mpa). Made in USA.

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

**NON-STOCK/SIZES:** Refer to page 311 for special production run minimum requirements.

**ORDER CODES:** 537-506 (150 psi) 537-508 (200 psi)

### BRIGADE™ MINE

| ID  |      | NOM. OD |      | MAX. WP |      | WEIGHT  |        |
|-----|------|---------|------|---------|------|---------|--------|
| in. | mm.  | in.     | mm.  | psi     | Mpa  | lb./ft. | kg./m. |
| 1½  | 38.1 | 1.75    | 44.5 | 150     | 1.03 | 0.23    | 0.34   |
| 2   | 50.8 | 2.27    | 57.7 | 150     | 1.03 | 0.34    | 0.51   |
| 2½  | 63.5 | 2.83    | 71.9 | 150     | 1.03 | 0.51    | 0.76   |
| 1½  | 38.1 | 1.72    | 43.7 | 200     | 1.38 | 0.25    | 0.37   |
| 2   | 50.8 | 2.29    | 58.2 | 200     | 1.38 | 0.36    | 0.54   |
| 2½  | 63.5 | 2.68    | 68.1 | 200     | 1.38 | 0.51    | 0.76   |

Note: Working pressures are rated at 72°F.

## FLEXTRA® ROCK DUST



### Product Specifications

- APPLICATION:** For handling rock dust operations in underground mines.
- CONSTRUCTION**
  - TUBE:** Black Tufsyn® synthetic rubber (static dissipating/static conductive)
  - COVER:** Yellow Chemivic™ synthetic rubber, flame-resistant (MSHA) (wrapped impression)
- REINFORCEMENT:** Spiral-plied synthetic fabric with wire helix
- TEMPERATURE:** -25°F to 200°F (-32°C to 93°C)
- PACKAGING:** 50' lengths, coiled and polywrapped
- BRANDING (SPIRAL):** Example: Goodyear® Rock Dust Flame-Resistant MSHA IC 1½.
- COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure. Soft-cuffed ends available upon special request.
- NON-STOCK/SIZES:** Refer to page 311 for special production run minimum requirements.
- ORDER CODES:** 549-668

### FLEXTRA® ROCK DUST

| ID  |       | NOM. OD |       | MAX. WP |      | BEND RADIUS |     | VACUUM HG |     | WEIGHT  |        |
|-----|-------|---------|-------|---------|------|-------------|-----|-----------|-----|---------|--------|
| in. | mm.   | in.     | mm.   | psi     | Mpa  | in.         | mm. | in.       | mm. | lb./ft. | kg./m. |
| 1¼  | 31.8  | 1.59    | 40.5  | 100     | 0.69 | 6           | 152 | 29        | 737 | 0.48    | 0.72   |
| 1½  | 38.1  | 1.85    | 46.9  | 100     | 0.69 | 6           | 152 | 29        | 737 | 0.60    | 0.89   |
| 2   | 50.8  | 2.37    | 60.3  | 100     | 0.69 | 8           | 203 | 29        | 737 | 0.80    | 1.19   |
| 2½  | 63.5  | 2.89    | 73.3  | 100     | 0.69 | 10          | 254 | 29        | 737 | 1.06    | 1.58   |
| 3   | 76.2  | 3.35    | 85.1  | 50      | 0.34 | 12          | 305 | 29        | 737 | 1.20    | 1.79   |
| 4   | 101.6 | 4.41    | 111.9 | 50      | 0.34 | 16          | 406 | 29        | 737 | 1.71    | 2.55   |

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## M&P MINE CONDUIT



### Product Specifications

- APPLICATION:** A fabric-reinforced conduit hose for use as an electrical cable cover in underground mine service.
- CONSTRUCTION**  
**TUBE:** Black flame-resistant synthetic
- COVER:** Black flame-resistant synthetic (smooth cover)
- REINFORCEMENT:** Spiral synthetic yarn
- TEMPERATURE:** -20°F to 200°F (-29°C to 93°C)
- PACKAGING:** Stocked in 50' pieces per box
- BRANDING:** Example: 3/4" (19.1mm) Mine Conduit Made in USA Goodyear®. US MSHA #2G-14-7X
- COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.
- NON-STOCK/SIZES:** Refer to page 311 for special production run minimum requirements.
- ORDER CODES:** 569-045

### M&P MINE CONDUIT

| ID    |      | NOM. OD |      | WEIGHT  |        |
|-------|------|---------|------|---------|--------|
| in.   | mm.  | in.     | mm.  | lb./ft. | kg./m. |
| 1/2   | 12.7 | 0.94    | 23.9 | 0.29    | 0.43   |
| 5/8   | 15.9 | 1.06    | 26.9 | 0.35    | 0.52   |
| 3/4   | 19.1 | 1.19    | 30.2 | 0.39    | 0.58   |
| 7/8   | 22.2 | 1.32    | 33.5 | 0.45    | 0.67   |
| 1     | 25.4 | 1.43    | 36.3 | 0.46    | 0.68   |
| 1 1/8 | 28.6 | 1.56    | 39.6 | 0.60    | 0.89   |
| 1 1/4 | 31.8 | 1.69    | 42.9 | 0.62    | 0.92   |
| 1 3/8 | 34.9 | 1.82    | 46.2 | 0.71    | 1.06   |
| 1 1/2 | 38.1 | 1.95    | 49.5 | 0.75    | 1.12   |

## PLICORD® AMMONIUM NITRATE PELLET



### Product Specifications

- APPLICATION:** For pellet transfer in blasting hole loading.
- CONSTRUCTION**
  - TUBE:** Black Nitrile synthetic rubber (static dissipating/static conductive)
  - COVER:** Black Nitrile synthetic rubber (static dissipating/static conductive)
- REINFORCEMENT:** Spiral-ply synthetic fabric
- TEMPERATURE:** -25°F to 200°F (-32°C to 93°C)
- PACKAGING:** 100' lengths, coiled and polywrapped
- BRANDING (SPIRAL):** Example: Goodyear® Ammonium Nitrate Pellet 100 psi.
- COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.
- NON-STOCK/SIZES:** Refer to page 311 for special production run minimum requirements.
- ORDER CODES:** 549-232

### PLICORD® AMMONIUM NITRATE PELLET

| ID  |      | NOM. OD |      | MAX. WP |      | WEIGHT  |        |
|-----|------|---------|------|---------|------|---------|--------|
| in. | mm.  | in.     | mm.  | psi     | Mpa  | lb./ft. | kg./m. |
| 3/4 | 19.1 | 1.17    | 29.7 | 100     | 0.69 | 0.33    | 0.49   |
| 1   | 25.4 | 1.42    | 36.1 | 100     | 0.69 | 0.34    | 0.51   |
| 1½  | 38.1 | 1.92    | 48.8 | 100     | 0.69 | 0.59    | 0.88   |
| 2   | 50.8 | 2.49    | 63.3 | 100     | 0.69 | 0.76    | 1.13   |
| 2½  | 63.5 | 2.94    | 74.7 | 100     | 0.69 | 0.90    | 1.34   |
| 3   | 76.2 | 3.42    | 86.9 | 100     | 0.69 | 1.10    | 1.64   |

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## PLICORD® MINE CONDUIT



### Product Specifications

- APPLICATION:** A fabric-reinforced hose for use as an electrical cable cover in underground mines. Meets MSHA standards for flame-resistant cover.
- CONSTRUCTION**  
**TUBE:** Black Wingprene® synthetic rubber
- COVER:** Black Wingprene® synthetic rubber, flame-resistant (wrapped impression)
- REINFORCEMENT:** Spiral-ply synthetic fabric
- TEMPERATURE:** -40°F to 200°F (-40°C to 93°C)
- PACKAGING:** 50' lengths, coiled and polywrapped
- BRANDING (SPIRAL):** Example: Goodyear® Mine Conduit Hose, Flame-Resistant, USMSHA, #2G-14/15.
- COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.
- NON-STOCK/SIZES:** Refer to page 311 for special production run minimum requirements.
- ORDER CODES:** 549-039 (black cover)      549-035 (yellow cover)

### PLICORD® MINE CONDUIT

| ID    |       | NOM. OD |       | WEIGHT  |        |
|-------|-------|---------|-------|---------|--------|
| in.   | mm.   | in.     | mm.   | lb./ft. | kg./m. |
| 1/2   | 12.7  | 0.94    | 23.9  | 0.30    | 0.45   |
| 5/8   | 15.9  | 1.06    | 26.9  | 0.35    | 0.52   |
| 3/4   | 19.1  | 1.18    | 30.0  | 0.40    | 0.60   |
| 7/8   | 22.2  | 1.30    | 33.0  | 0.45    | 0.67   |
| 1     | 25.4  | 1.43    | 36.3  | 0.50    | 0.74   |
| 1 1/8 | 28.6  | 1.58    | 40.1  | 0.56    | 0.83   |
| 1 1/4 | 31.8  | 1.69    | 42.9  | 0.61    | 0.91   |
| 1 3/8 | 34.9  | 1.81    | 46.0  | 0.66    | 0.98   |
| 1 1/2 | 38.1  | 1.93    | 49.0  | 0.71    | 1.06   |
| 1 3/4 | 44.5  | 2.21    | 56.1  | 0.82    | 1.22   |
| 2     | 50.8  | 2.42    | 61.5  | 0.87    | 1.29   |
| 2 1/4 | 57.2  | 2.67    | 67.9  | 0.97    | 1.43   |
| 2 3/8 | 60.3  | 2.80    | 71.0  | 1.02    | 1.52   |
| 2 1/2 | 63.5  | 2.92    | 74.2  | 1.06    | 1.58   |
| 3     | 76.2  | 3.41    | 86.5  | 1.26    | 1.86   |
| 4     | 101.6 | 4.44    | 112.7 | 1.66    | 2.45   |

## SPIRAFLEX® CABLE GUARD



### Product Specifications

- APPLICATION:** For use as a protective cover for supply lines. Flame-resistant MSHA approved.
- CONSTRUCTION**
- TUBE:** Clear Pliovic® corrugated for flexibility, MSHA
- HELIX:** Clear Pliovic corrugated for flexibility, MSHA
- TEMPERATURE:** 0°F to 150°F (-18°C to 66°C)
- PACKAGING:** Continuous one piece, coiled and polywrapped, available in 50' or 100' lengths, available preslit longitudinally for easy installation.
- BRANDING:** Example: Cable Guard, USMSHA IC-11/12. Made in USA Goodyear®.
- NON-STOCK/SIZES:** Refer to page 311 for special production run minimum requirements.
- ORDER CODES:** 586-438

### SPIRAFLEX® CABLE GUARD

| ID  |       | NOM. OD |       | BEND RADIUS |     | WEIGHT  |        |
|-----|-------|---------|-------|-------------|-----|---------|--------|
| in. | mm.   | in.     | mm.   | psi         | Mpa | lb./ft. | kg./m. |
| 2   | 50.8  | 2.28    | 57.9  | 3           | 76  | 0.34    | 0.51   |
| 3   | 76.2  | 3.37    | 85.6  | 6           | 152 | 0.52    | 0.77   |
| 4   | 101.6 | 4.44    | 112.8 | 9           | 229 | 0.75    | 1.12   |

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## SPIRAFLEX® ROCK DUST



### Product Specifications

|                         |   |
|-------------------------|---|
| <b>APPLICATION:</b>     | Rock Dust hose is a lightweight, flexible alternative to the rubber hose for handling rock dusting in underground coal mines. |
| <b>CONSTRUCTION</b>     |   |
| <b>TUBE:</b>            | Green Pliovic®, meets MSHA standards USMSHA   |
| <b>COVER:</b>           | Green Pliovic, meets MSHA standards USMSHA  |
| <b>REINFORCEMENT:</b>   | Rigid white Pliovic PVC helix   |
| <b>TEMPERATURE:</b>     | 0°F to 158°F (-18°C to 70°C)  |
| <b>PACKAGING:</b>       | 100' lengths, coiled and polywrapped  |
| <b>BRANDING:</b>        | Example: Rockdust USMSHA 2G-1C-14C/17 Made in USA Goodyear®.  |
| <b>COUPLINGS:</b>       | Contact fitting manufacturer for proper fitting recommendation and coupling procedure.  |
| <b>NON-STOCK/SIZES:</b> | Static wire available, contact Customer Service.  |
| <b>ORDER CODES:</b>     | 586-426 (corrugated cover)<br>586-427 (smooth cover with static wire, not available in 4")                                    |

### SPIRAFLEX® ROCK DUST

| ID  |       | NOM. OD |       | MAX. WP |      | BEND RADIUS |     | VACUUM HG |     | WEIGHT  |        |
|-----|-------|---------|-------|---------|------|-------------|-----|-----------|-----|---------|--------|
| in. | mm.   | in.     | mm.   | psi     | Mpa  | in.         | mm. | in.       | mm. | lb./ft. | kg./m. |
| 1½  | 38.1  | 1.75    | 44.5  | 44      | 0.30 | 4           | 97  | 29        | 737 | 0.28    | 0.42   |
| 2   | 50.8  | 2.35    | 59.7  | 30      | 0.21 | 6           | 140 | 29        | 737 | 0.61    | 0.91   |
| 2½  | 63.5  | 2.87    | 72.9  | 30      | 0.21 | 7           | 178 | 29        | 737 | 0.61    | 0.91   |
| 3   | 76.2  | 3.40    | 86.4  | 30      | 0.21 | 8           | 203 | 29        | 737 | 0.77    | 1.15   |
| 4   | 101.6 | 4.45    | 113.0 | 27      | 0.19 | 14          | 356 | 15        | 381 | 0.95    | 1.41   |

## TUNNELCOTE™ ROCK DUST



### Product Specifications



|                           |   |
|---------------------------|---|
| <b>APPLICATION:</b>       | For handling rock dust operations in underground mines. Offered in corrugated or smooth cover. Optional reflective tape available in either style.  |
| <b>CONSTRUCTION</b>       |   |
| <b>TUBE:</b>              | Black Tufsyn® synthetic rubber (static dissipating / static conductive)   |
| <b>COVER:</b>             | SMOOTH (Flexwing®): Black Wingprene® synthetic rubber, flame resistant (MSHA) (wrapped impression)<br>CORRUGATED (Flextra®): Black Wingprene® synthetic rubber, flame resistant (MSHA) (wrapped impression) |
| <b>REINFORCEMENT:</b>     | Spiral-ply synthetic fabric with dual wire helix  |
| <b>TEMPERATURE:</b>       | -25°F to 200°F (-32°C to 93°C)  |
| <b>PACKAGING:</b>         | 50' length, coiled & polywrapped  |
| <b>BRANDING (SPIRAL):</b> | Example: Goodyear® TunnelCote™ rock dust flame resistant msha IC-11/14 (embossed)   |
| <b>COUPLINGS:</b>         | Contact fitting manufacturer for proper fitting recommendation and coupling procedure. Soft-cuffed ends standard. Plain ends available upon request.  |
| <b>NON-STOCK/SIZES:</b>   | 400' minimum order, contact customer service  |
| <b>ORDER CODES:</b>       | Smooth Cover Flexwing®: 546-469      546-470 (with 10mm wide spiral reflective tape added)<br>Corrugated Cover Flextra®: 546-467      546-468 (with 10mm wide spiral reflective tape added)                 |

### FLEXWING® SMOOTH

| ID  |      | NOM. OD |      | MAX. WP |      | BEND RADIUS |     | VACUUM HG |     | WEIGHT  |        |
|-----|------|---------|------|---------|------|-------------|-----|-----------|-----|---------|--------|
| in. | mm.  | in.     | mm.  | psi     | Mpa  | in.         | mm. | in.       | mm. | lb./ft. | kg./m. |
| 1¼  | 32.0 | 1.62    | 41.1 | 100     | 0.69 | 5           | 127 | 29        | 737 | 0.54    | 0.80   |
| 1½  | 38.0 | 1.85    | 47.1 | 100     | 0.69 | 6           | 152 | 29        | 737 | 0.63    | 0.94   |
| 2   | 51.2 | 2.40    | 60.9 | 100     | 0.69 | 8           | 203 | 29        | 737 | 0.88    | 1.31   |
| 2½  | 63.7 | 2.92    | 74.3 | 100     | 0.69 | 10          | 254 | 29        | 737 | 1.21    | 1.80   |
| 3   | 76.1 | 3.42    | 86.8 | 100     | 0.69 | 12          | 305 | 29        | 737 | 1.44    | 2.14   |

### FLEXTRA® CORRUGATED

| ID  |      | NOM. OD |      | MAX. WP |      | BEND RADIUS |     | VACUUM HG |     | WEIGHT  |        |
|-----|------|---------|------|---------|------|-------------|-----|-----------|-----|---------|--------|
| in. | mm.  | in.     | mm.  | psi     | Mpa  | in.         | mm. | in.       | mm. | lb./ft. | kg./m. |
| 1¼  | 32.0 | 1.57    | 39.9 | 100     | 0.69 | 2½          | 64  | 29        | 737 | 0.46    | 0.68   |
| 1½  | 38.0 | 1.80    | 45.9 | 100     | 0.69 | 3           | 76  | 29        | 737 | 0.54    | 0.80   |
| 2   | 51.2 | 2.35    | 59.7 | 100     | 0.69 | 4           | 102 | 29        | 737 | 0.76    | 1.13   |
| 2½  | 63.7 | 2.86    | 72.7 | 100     | 0.69 | 6           | 152 | 29        | 737 | 1.01    | 1.50   |
| 3   | 76.1 | 3.35    | 85.2 | 100     | 0.69 | 8           | 203 | 29        | 737 | 1.21    | 1.80   |



AIR &  
MULTIPURPOSE  
General Purpose  
Heavy Duty  
Push-on

CHEMICAL  
TRANSFER

CLEANING  
EQUIPMENT

FOOD  
Transfer  
Washdown

MARINE

MATERIAL  
HANDLING  
Abrasives

Bulk Transfer  
Cement & Concrete

### MINING

PETROLEUM  
Aircraft Fueling  
Dispensing  
Dock  
Transfer

SPRAY

STEAM

VACUUM

VEYANCE

WATER  
Discharge  
Suction &  
Discharge  
Washdown

WELDING

COUPLING  
SYSTEMS

APPENDIX