



MANDALS ULTRAMAN IS A DURABLE LIGHTWEIGHT HOSE FOR ALL-ROUND USE IN THE MINING SECTOR. EASE OF HANDLING AND A LONG LIFE TIME MAKES IT VERY COST EFFECTIVE. THIS HOSE IS ALSO USED IN DEEP MINES FOR RELINING THE COMPRESSED AIR LINES- AVAILABLE IN UP TO 800 M LENGTHS DEPENDING ON DIAMETER.

**FEATURES**

- High resistance against commonly used chemical and excellent resistance to UV radiation, hydrolysis and fungus.
- Lightweight and easy to deploy.
- High tenacity filament polyester yarn.
- Light weight with good abrasion and puncture resistance.

**DESIGN**

- Thermoplastic polyether based polyurethane (TPU)
- Extrusion through a circular woven jacket.
- Excellent adhesion between cover and weave.

**ADVANTAGE**

- Excellent hydrolysis and fungus resistance
- High diameter and extension stability
- Resistance to a wide range of chemicals (Ref. chemical list)
- Temperature range -50 to 75 °C (pure water)
- Excellent UV and weathering resistance.
- Standard lengths depending on diameter.

**APPLICATIONS / INDUSTRIES**



MANDALS ULTRAMAN IS OPTIMAL FOR WATER MANAGEMENT SYSTEM. EFFECTIVE MINE DE-WATERING AND SLOPE PRESSURIZATION SYSTEM ARE IMPORTANT COMPONENTS OF MANY SURFACE AND UNDERGROUND MINING OPERATIONS.

**TECHNICAL DATA**

| INTERNAL DIAMETER |             | WALL THICKNESS |     | WEIGHT   |        | BURST PRESSURE |     | TENSILE STRENGTH |      |
|-------------------|-------------|----------------|-----|----------|--------|----------------|-----|------------------|------|
| Inch              | mm          | Inch           | mm  | Lbs / ft | Kg / m | Psi            | Bar | X1000 lbs        | Tons |
| 2                 | 51.0 + 2.0  | 0.11           | 2.7 | 0.35     | 0.52   | 940            | 65  | 11.9             | 5.4  |
| 2 1/2             | 65.0 + 2.0  | 0.11           | 2.8 | 0.44     | 0.66   | 810            | 56  | 14.3             | 6.5  |
| 3                 | 76.0 + 2.0  | 0.11           | 2.8 | 0.54     | 0.84   | 780            | 54  | 17.4             | 7.9  |
| 3 1/2             | 90.0 + 2.0  | 0.11           | 2.9 | 0.66     | 0.98   | 620            | 43  | 20.0             | 9.1  |
| 4                 | 102.0 + 2.5 | 0,13           | 3.2 | 0.80     | 1.20   | 610            | 42  | 22.2             | 10.1 |
| 4 1/2             | 114.0 + 2.5 | 0,13           | 3.2 | 0.93     | 1.39   | 535            | 37  | 23.8             | 10.8 |
| 5                 | 127.0 + 2.5 | 0,13           | 3.2 | 1.02     | 1.52   | 505            | 35  | 26.4             | 12.0 |
| 6                 | 152.0 + 3.0 | 0,13           | 3.2 | 1.16     | 1.73   | 435            | 30  | 32.8             | 14.9 |
| 7                 | 178.0 + 3.0 | 0,13           | 3.2 | 1.37     | 2.05   | 390            | 27  | 37.6             | 17,1 |
| 8                 | 203,0 + 3.0 | 0,13           | 3.2 | 1.63     | 2.44   | 375            | 26  | 41.7             | 18.9 |
| 10                | 254.0 + 4.0 | 0,13           | 3.3 | 2.07     | 3.08   | 305            | 21  | 52,,3            | 23.7 |
| 12                | 305.0 + 5.0 | 0,13           | 3.4 | 2,74     | 4.05   | 230            | 16  | 84.2             | 38.2 |

NOTE: SAFETY FACTOR BP/WP IS 2:1 (50%). FOR ALL NON-HAZARD AND /OR INFLAMMABLE LIQUIDS.

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