



# REDFINE + NR



## HIGH WEAR SHEETING FINE GRAIN SIZE MATERIAL

### FEATURES

Wear resistant natural rubber, red.

### APPLICATIONS

Hoppers, chutes, operating cyclones, hydrocyclones, vibrating lines, extraction pump bodies, tanks, silos, etc., linings to protect equipment against very abrasive fine grain size products wear, due to their very nature (rock, wood, metal, all fine particle size materials, chemical products, etc.), density and hardness (medium to high), forms (fine particles, bulks, etc.), with dry conditions and maximum temperature 70 °C.

Hanging panels fostering materials cleaning and removal.

Areas of activity: sand and gravel quarries, aggregate and cement industries, concrete plants, etc.

### ADVANTAGES


- Excellent mechanical properties: tensile strength, elongation at break, tear resistance, abrasion, etc.
- Excellent resistance to fine grain size products projection and fretting wear: sand, shot blasting, fine particles, abrasive dust, etc.
- Great flexibility and resilience
- Corrosion protection
- Noise and vibration propagation reduction
- Possibility to be produced with bonding layer for cold vulcanizing or with steel backing for mechanical fixing

### BENEFITS

- Performance
- Economy: reduce downtime and maintenance costs
- Long service life: lower hourly costs
- Safety
- Reliability

### MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

| Measured characteristics                 |  | Standard   | Value                 |         |
|--|--|------------|-----------------------|---------|
| MECHANICAL                               |  |            |                       |         |
| Rubber compound - red                    |  |            | NR                    | R397    |
| Density                                  |  |            | 0.95 ±0.05            | g/cm³   |
| Hardness                                 |  | ASTM D2240 | 35 ±5                 | Shore A |
| Tensile strength                         |  | ISO 37     | ≥24                   | MPa     |
| Elongation at break                      |  | ISO 37     | ≥700                  | %       |
| Tear resistance                          |  | ISO 34-1   | ≥30                   | N/mm    |
| Abrasion resistance (5N)                 |  | ISO 4649   | ≤60                   | mm²     |
| Compression set after 22h at 70 °C       |  | ISO 815-1  | ≤30                   | %       |
| TEMPERATURE                              |  |            |                       |         |
| Working temperature                      |  |            | -40/+80               | °C      |
| AGEING                                   |  |            |                       |         |
| Δ Hardness after 70h at 70 °C            |  | ASTM D573  | ≤5                    | Shore A |
| Δ Tensile strength after 70h at 70 °C    |  | ASTM D573  | ≤15                   | %       |
| Δ Elongation at break after 70h at 70 °C |  | ASTM D573  | ≤25                   | %       |
| CHEMICAL RESISTANCE                      |  |            |                       |         |
| Diluted acids and bases                  | Concentrated acids and bases   | Ozone      | Oils and hydrocarbons |         |
| Good                                     | Medium   | Medium     | Non suitable          |         |
| IDENTIFICATION                           |  |            |                       |         |
| Branding                                 | Without.   |            |                       |         |
| Packaging                                | Thickness ≤6mm rolled on cardboard tube Ø 80mm.<br>Thickness >6mm in roll.<br>Bonding layer internal side protected by a white polypropylene film, easily removable by hand. |            |                       |         |
| Wrapping                                 | Black polyethylene film.   |            |                       |         |
| Labelling                                | Self-adhesive label indicating product name, dimensions, area in m², nominal weight, and product code to allow product traceability.   |            |                       |         |

| NR              | HIGH WEAR SHEETING | REDFINE +   |  |                                    |                                |
|-----------------|--------------------|-------------|---|------------------------------------|--------------------------------|
| THICKNESS<br>mm | WIDTH<br>mm        | LENGTH<br>m | WEIGHT<br>kg/m <sup>2</sup>   | SIDES FINISH                       | OPTION<br>(BL = bonding layer) |
| 3±0.3           | 1400±2%            | 10±2%       | 2.83  | 2 smooth sides                     |                                |
| 4±0.4           | 1400±2%            | 10±2%       | 3.78  | 2 smooth sides                     |                                |
| 5±0.4           | 1500±2%            | 10±2%       | 5.06  | 1 side smooth/1 side bonding layer | BL                             |
| 5±0.4           | 1500±2%            | 10±2%       | 4.73  | 2 sides matt                       |                                |
| 6±0.5           | 1500±2%            | 10±2%       | 5.7   | 1 side matt/1 side bonding layer   | BL                             |
| 6±0.5           | 1500±2%            | 10±2%       | 5.7   | 2 sides matt                       |                                |
| 8±0.7           | 1500±2%            | 10±2%       | 7.9   | 1 side matt/1 side bonding layer   | BL                             |
| 8±0.7           | 1500±2%            | 10±2%       | 7.56  | 2 sides matt                       |                                |
| 10±1.0          | 1500±2%            | 10±2%       | 9.79  | 1 side matt/1 side bonding layer   | BL                             |
| 10±1.0          | 1500±2%            | 10±2%       | 9.45  | 2 sides matt                       |                                |
| 12±1.0          | 1500±2%            | 6±2%        | 12.07   | 1 side matt/1 side bonding layer   | BL                             |
| 12±1.0          | 1500±2%            | 6±2%        | 11.34   | 2 sides matt                       |                                |
| 15±1.0          | 1500±2%            | 6±2%        | 14.72   | 1 side matt/1 side bonding layer   | BL                             |
| 15±1.0          | 1500±2%            | 6±2%        | 14.18   | 2 sides matt                       |                                |
| 20±1.4          | 1500±2%            | 6±2%        | 19.44   | 1 side matt/1 side bonding layer   | BL                             |
| 20±1.4          | 1500±2%            | 6±2%        | 18.9  | 2 sides matt                       |                                |
| 25±1.75         | 1500±2%            | 6±2%        | 24.07   | 1 side matt/1 side bonding layer   | BL                             |
| 25±1.75         | 1500±2%            | 6±2%        | 23.63   | 2 sides matt                       |                                |

