

# Rod Reinforced Belt

Elongated spirals reinforced with straight cross rods for strength at high temperature with little stretch.

Rod reinforced belts are made from relatively elongated spirals woven together and reinforced by inserting a straight cross rod between them.

This construction withstands high tensile loads at elevated temperatures with very little elongation, lengthwise or widthwise — making it a strong choice for furnaces and heavy-duty heat processing.

## Construction

Elongated spirals woven together, with a straight cross rod inserted between each pair for reinforcement.

## Key data

| Item         | Detail                                                                           |
|--------------|----------------------------------------------------------------------------------|
| Materials    | Mild steel, Stainless steel grades, Heat-resisting alloys on request             |
| Wire         | 1.20 mm to 4.00 mm depending on type                                             |
| Temperature  | Suited to elevated temperatures — rating depends on alloy                        |
| Edges        | Welded edge, Bent edge, Chain edge                                               |
| Applications | Furnace and heat-treatment conveyors, Heavy-load process conveying, Drying ovens |

## R-9 Type – Heavy loads

| Specification | Mesh pitch | Spiral wire dia. | Wire dia. | Approx. weight (kg/m <sup>2</sup> ) |
|---------------|------------|------------------|-----------|-------------------------------------|
| R-9: 11-12-8  | 1"         | 4.00 mm          | 4.00 mm   | 15.20                               |
| R-9: 11-8-12  | 1"         | 2.60 mm          | 2.64 mm   | 14.60                               |
| R-9: 12-12-8  | 1"         | 4.00 mm          | 4.00 mm   | 17.20                               |
| R-9: 12-12-10 | 1"         | 2.60 mm          | 3.25 mm   | 6.45                                |
| R-9: 12-14-10 | 7/8"       | 3.25 mm          | 3.25 mm   | 12.30                               |

## R-10 Type – Medium loads

| Specification  | Mesh pitch | Spiral wire dia. | Wire dia. | Approx. weight (kg/m <sup>2</sup> ) |
|----------------|------------|------------------|-----------|-------------------------------------|
| R-10: 15-17-8  | 3/4"       | 4.00 mm          | 4.00 mm   | 24.50                               |
| R-10: 15-13-10 | 3/4"       | 3.25 mm          | 3.25 mm   | 15.60                               |
| R-10: 15-13-11 | 3/4"       | 2.95 mm          | 2.95 mm   | 12.60                               |
| R-10: 15-13-12 | 3/4"       | 2.60 mm          | 2.60 mm   | 9.80                                |
| R-10: 15-13-14 | 3/4"       | 2.00 mm          | 2.00 mm   | 9.60                                |

## R-11 Type – Light loads

| Specification  | Mesh pitch | Spiral wire dia. | Wire dia. | Approx. weight (kg/m <sup>2</sup> ) |
|----------------|------------|------------------|-----------|-------------------------------------|
| R-11: 21-24-10 | 1/2"       | 3.25 mm          | 3.25 mm   | 26.20                               |
| R-11: 23-22-12 | 1/2"       | 2.60 mm          | 2.60 mm   | 15.00                               |
| R-11: 24-36-12 | 3/8"       | 2.60 mm          | 2.60 mm   | 28.80                               |
| R-11: 26-28-12 | 3/8"       | 2.60 mm          | 2.60 mm   | 16.60                               |
| R-11: 28-30-14 | 3/8"       | 2.00 mm          | 2.00 mm   | 10.80                               |

## R-12 Type – Small loads

| Specification  | Mesh pitch | Spiral wire dia. | Wire dia. | Approx. weight (kg/m <sup>2</sup> ) |
|----------------|------------|------------------|-----------|-------------------------------------|
| R-12: 29-28-16 | 3/8"       | 1.62 mm          | 1.62 mm   | 7.10                                |
| R-12: 39-50-16 | 1.4"       | 1.62 mm          | 1.62 mm   | 11.00                               |
| R-12: 47-47-18 | 1.4"       | 1.20 mm          | 1.20 mm   | 6.55                                |
| R-12: 51-74-16 | 1.4"       | 1.62 mm          | 1.62 mm   | 17.00                               |
| R-12: 60-75-18 | 1/8"       | 1.20 mm          | 1.20 mm   | 10.80                               |

## How to read the code

| Letter | Meaning                                      |
|--------|----------------------------------------------|
| A      | Number of spirals per foot of belt width     |
| B      | Number of cross rods per foot of belt length |
| C      | Spiral wire diameter (gauge)                 |
| D      | Cross-rod diameter                           |

Belt specification R-X : A-B-C-D. R-X is the belt type.

Request a quotation: <https://roshanind.com/request-a-quote/?product=rod-reinforced-belt>