

## SELECTION CHART FOR GRADES OF RUBBER COVER

| COVER GRADE<br>CHARACTERISTICS AND<br>APPLICATIONS                                                                      | PHYSICAL PROPERTIES |                            |                 |                                 |                           |                               |     |                                        |
|-------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------|-----------------|---------------------------------|---------------------------|-------------------------------|-----|----------------------------------------|
|                                                                                                                         | STANDARD            | BEFORE AGEING              |                 | TEMPERATU<br>RE OF<br>AGEING *C | DURATION OF<br>AGEING HRS | AFTER AGEING                  |     | MAXIMU<br>M<br>ABRASION<br>LOSS<br>MM3 |
|                                                                                                                         |                     | TENSILE<br>STRENGTH<br>MPA | ELONGATION<br>% |                                 |                           | CHANGE IN<br>ELONGATIO<br>N % |     |                                        |
| OIL RESISTANT BELTING                                                                                                   |                     |                            |                 |                                 |                           |                               |     |                                        |
| GRADE OR                                                                                                                |                     |                            |                 |                                 |                           |                               |     |                                        |
| Composed of Synthetic<br>rubber compounds, this<br>grade is resistant to<br>mineral, vegetable, animal<br>oils and fats | IS 1891 Part-1      | 12                         | 250             | 70                              | 72                        | -35                           | -35 | Not<br>Specified                       |





## CHART FOR BELT SELECTION

| BELT DESIGNATION                                                                                                                                                     |        | FULL<br>BELT<br>TENSILE<br>STRENGTH | MAXIMUM<br>RECOMMEN<br>DED<br>WORKING          |    | Nomi<br>nal<br>Carca<br>ss | Nominal<br>Carcass<br>Thickness | Maximum Belt<br>width (mm) for<br>Adequate Load<br>support Bulk |             |             | Minimum Belt<br>width (mm) for<br>Adequate<br>Toughing |                      |                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------------------|------------------------------------------------|----|----------------------------|---------------------------------|-----------------------------------------------------------------|-------------|-------------|--------------------------------------------------------|----------------------|----------------------|
|                                                                                                                                                                      |        |                                     | Vulcanized<br>Mechanical<br>Splice<br>Fastener |    |                            |                                 | Upto<br>1.0                                                     | Upto<br>1.5 | Upto<br>2.5 | 20<br>Deg.<br>Idlers                                   | 20<br>Deg.<br>Idlers | 20<br>Deg.<br>Idlers |
| General<br>Duty                                                                                                                                                      | Rating | KN/M                                |                                                |    | (mm)                       | Kg/cm/mtr                       |                                                                 |             |             |                                                        |                      |                      |
|                                                                                                                                                                      | 200/2  | 200                                 | 20                                             | 20 | 2.4                        | 0.022                           | 650                                                             | 500         | -           | 300                                                    | 400                  | 500                  |
|                                                                                                                                                                      | 250/2  | 250                                 | 25                                             | 25 | 2.5                        | 0.023                           | 650                                                             | 600         | -           | 300                                                    | 400                  | 500                  |
|                                                                                                                                                                      | 315/2  | 315                                 | 31                                             | 31 | 2.7                        | 0.024                           | 900                                                             | 650         | 500         | 300                                                    | 400                  | 500                  |
|                                                                                                                                                                      | 315/3  | 315                                 | 31                                             | 31 | 3.2                        | 0.025                           | 1000                                                            | 800         | 650         | 400                                                    | 500                  | 500                  |
|                                                                                                                                                                      | 400/2  | 400                                 | 40                                             | 40 | 2.8                        | 0.025                           | 1000                                                            | 800         | 650         | 400                                                    | 500                  | 500                  |
|                                                                                                                                                                      | 400/3  | 400                                 | 40                                             | 40 | 3.4                        | 0.027                           | 1200                                                            | 900         | 650         | 500                                                    | 500                  | 500                  |
|                                                                                                                                                                      | 500/3  | 500                                 | 50                                             | -  | 3.4                        | 0.03                            | 1200                                                            | 900         | 650         | 500                                                    | 500                  | 500                  |
|                                                                                                                                                                      | 630/3  | 630                                 | 63                                             | -  | 3.5                        | 0.031                           | 1200                                                            | 1000        | 800         | 500                                                    | 500                  | 500                  |
| Heavy<br>Duty                                                                                                                                                        | 200/2  | 200                                 | 20                                             | 20 | 2.8                        | 0.026                           | 800                                                             | 650         | 500         | 400                                                    | 400                  | 500                  |
|                                                                                                                                                                      | 250/2  | 250                                 | 25                                             | 25 | 3                          | 0.028                           | 800                                                             | 650         | 500         | 400                                                    | 400                  | 500                  |
|                                                                                                                                                                      | 315/2  | 315                                 | 31                                             | 31 | 3.1                        | 0.029                           | 1000                                                            | 800         | 650         | 400                                                    | 500                  | 500                  |
|                                                                                                                                                                      | 315/3  | 315                                 | 31                                             | 31 | 3.6                        | 0.03                            | 1200                                                            | 1000        | 800         | 500                                                    | 500                  | 500                  |
|                                                                                                                                                                      | 400/2  | 400                                 | 40                                             | 40 | 3.2                        | 0.03                            | 1200                                                            | 1000        | 800         | 500                                                    | 500                  | 500                  |
|                                                                                                                                                                      | 400/3  | 400                                 | 40                                             | 40 | 3.6                        | 0.032                           | 1200                                                            | 1000        | 800         | 500                                                    | 500                  | 650                  |
|                                                                                                                                                                      | 400/4  | 400                                 | 44                                             | 40 | 4.5                        | 0.044                           | 1200                                                            | 1000        | 800         | 500                                                    | 500                  | 650                  |
|                                                                                                                                                                      | 500/3  | 500                                 | 50                                             | -  | 3.7                        | 0.034                           | 1400                                                            | 1200        | 800         | 500                                                    | 500                  | 650                  |
|                                                                                                                                                                      | 500/4  | 500                                 | 55                                             | -  | 4.5                        | 0.046                           | 1400                                                            | 1400        | 900         | 500                                                    | 650                  | 650                  |
|                                                                                                                                                                      | 630/3  | 630                                 | 63                                             | -  | 3.9                        | 0.036                           | 1600                                                            | 1600        | 1200        | 650                                                    | 800                  | 800                  |
|                                                                                                                                                                      | 630/4  | 630                                 | 70                                             | -  | 5                          | 0.049                           | 1600                                                            | 1600        | 1400        | 650                                                    | 800                  | 900                  |
|                                                                                                                                                                      | 800/4  | 800                                 | 90                                             | -  | 5.4                        | 0.051                           | 1600                                                            | 1600        | 1600        | 650                                                    | 900                  | 900                  |
|                                                                                                                                                                      | 1000/4 | 1000                                | 110                                            | -  | 5.8                        | 0.054                           | 1600                                                            | 1600        | 1600        | 800                                                    | 900                  | 1000                 |
|                                                                                                                                                                      | 1000/5 | 1000                                | 110                                            | -  | 6.6                        | 0.066                           | 1600                                                            | 1600        | 1600        | 800                                                    | 900                  | 1000                 |
|                                                                                                                                                                      | 1250/4 | 1250                                | 140                                            | -  | 6.5                        | 0.062                           | 1600                                                            | 1600        | 1600        | 800                                                    | 900                  | 1000                 |
|                                                                                                                                                                      | 1250/5 | 1250                                | 140                                            | -  | 7.1                        | 0.08                            | 1600                                                            | 1600        | 1600        | 900                                                    | 900                  | 1000                 |
| Extra<br>Heavy<br>Duty                                                                                                                                               | 400/4  | 400                                 | 44                                             | -  | 4.8                        | 0.058                           | 1200                                                            | 1000        | 800         | 500                                                    | 500                  | 500                  |
|                                                                                                                                                                      | 500/4  | 500                                 | 55                                             | -  | 4.8                        | 0.06                            | 1400                                                            | 1000        | 900         | 500                                                    | 500                  | 500                  |
|                                                                                                                                                                      | 630/4  | 630                                 | 70                                             | -  | 5.6                        | 0.063                           | 1400                                                            | 1000        | 900         | 500                                                    | 500                  | 500                  |
|                                                                                                                                                                      | 800/4  | 800                                 | 90                                             | -  | 6                          | 0.065                           | 1400                                                            | 1200        | 900         | 500                                                    | 500                  | 650                  |
|                                                                                                                                                                      | 800/5  | 800                                 | 90                                             | -  | 6.5                        | 0.063                           | 1600                                                            | 1400        | 1200        | 600                                                    | 650                  | 800                  |
|                                                                                                                                                                      | 1000/4 | 1000                                | 110                                            | -  | 6.2                        | 0.068                           | 1600                                                            | 1400        | 1200        | 600                                                    | 750                  | 900                  |
|                                                                                                                                                                      | 1000/5 | 1000                                | 110                                            | -  | 7                          | 0.075                           | 1600                                                            | 1600        | 1400        | 750                                                    | 900                  | 1000                 |
|                                                                                                                                                                      | 1250/4 | 1250                                | 140                                            | -  | 6.8                        | 0.076                           | 1600                                                            | 1600        | 1600        | 750                                                    | 800                  | 900                  |
|                                                                                                                                                                      | 1250/5 | 1250                                | 140                                            | -  | 7.5                        | 0.089                           | 1600                                                            | 1600        | 1400        | 800                                                    | 900                  | 1000                 |
|                                                                                                                                                                      | 1400/4 | 1400                                | 145                                            | -  | 7.2                        | 0.077                           | 1600                                                            | 1600        | 1600        | 750                                                    | 800                  | 1000                 |
|                                                                                                                                                                      | 1400/5 | 1400                                | 155                                            | -  | 8.2                        | 0.089                           | 1600                                                            | 1600        | 1600        | 800                                                    | 900                  | 1200                 |
|                                                                                                                                                                      | 1600/4 | 1600                                | 180                                            | -  | 7.4                        | 0.081                           | 1600                                                            | 1600        | 1600        | 800                                                    | 900                  | 1000                 |
|                                                                                                                                                                      | 1600/5 | 1600                                | 180                                            | -  | 8.8                        | 0.1                             | 1600                                                            | 1600        | 1600        | 800                                                    | 900                  | 1200                 |
| Note:                                                                                                                                                                |        |                                     |                                                |    |                            |                                 |                                                                 |             |             |                                                        |                      |                      |
| * The weight of M-24 grade of rubber cover is 1.11 Kg/sq mtr per mm thickness. For other special grades of rubber covers, please contact us.                         |        |                                     |                                                |    |                            |                                 |                                                                 |             |             |                                                        |                      |                      |
| * Figures indicated under nominal carcass thickness and nominal carcass weight columns are provided for basic design consideration only.                             |        |                                     |                                                |    |                            |                                 |                                                                 |             |             |                                                        |                      |                      |
| * Figures in the rating column represent the full thickness tensile strength of the belt in KN/M width a                                                             |        |                                     |                                                |    |                            |                                 |                                                                 |             |             |                                                        |                      |                      |
| * The above chart indicates our standard range of Nylon/EP conveyor belts. Other constructions can be designed and manufactured by us against specific requirements. |        |                                     |                                                |    |                            |                                 |                                                                 |             |             |                                                        |                      |                      |

