

# Power transmission belts

● yes  
- no

| Product Group                      | Product Sub-Group       | Belt Type | Technical Data |      |                           |     |   |     |   |        |  |        |  |     |  |     |                              |   | Joining System  | Product Construction/Design   |                 |   |                 |   |                                 |             |                                 | Product Characteristic |                        | Chemical Resistance Class |
|------------------------------------|-------------------------|-----------|----------------|------|---------------------------|-----|---|-----|---|--------|--|--------|--|-----|--|-----|------------------------------|---|-----------------|---|-----------------|---|-----------------|---|---------------------------------|-------------|---------------------------------|------------------------|------------------------|---------------------------|
|                                    |                         |           | Thickness      |      | Pulley diameter (minimum) |     | Pulley diameter (minimum) with counter flection |     | Tensile force for 1% elongation (k1% after running in) per unit of width (Habasit standard 320.013) |        | Nominal peripheral force per unit of width |        | Operating temperature admissible (continuous) Min. |     | Operating temperature admissible (continuous) Max. |     | Seamless manufacturing width |   |                 | Standard  | Friction cover  |   |                 | Traction Layer  | Reverse cover                   |             |                                 | Drive determination    | Permanently antistatic |                           |
|                                    |                         |           | mm             | in   | mm                        | in  | mm  | in  | N/mm  | lbs/in | N/mm                                       | lbs/in | °C   | °F  | °C   | °F  | mm                           | in  |                 |   | Material        | Surface   | Color           |   | Material                        | Material    | Surface                         |                        |                        |                           |
| Polyamide power transmission belts | S-Tangential/flat belts | S-10/15   | 1.5            | 0.06 | 25                        | 1.0 | 25  | 1.0 | 3.9   | 22     | 10   | 57     | -20  | -4  | 100  | 212 | 2400                         | 94  | Thermofix       | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (pulley/cylinder side) | Rough structure | Yellow  | Polyamide (PA)  | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (whirl side) | Rough structure                 | Light green | Double-sided power transmission | ●                      | 2                      |                           |
|                                    |                         | S-18/20   | 2.0            | 0.08 | 60                        | 2.4 | 60  | 2.4 | 7.5   | 43     | 18   | 103    | -20  | -4  | 100  | 212 | 2400                         | 94  | Thermofix       | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (pulley/cylinder side) | Rough structure | Yellow  | Polyamide (PA)  | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (whirl side) | Rough structure                 | Light green | Double-sided power transmission | ●                      | 2                      |                           |
|                                    |                         | S-18/30   | 3.0            | 0.12 | 60                        | 2.4 | 60  | 2.4 | 7.6   | 43     | 18   | 103    | -20  | -4  | 100  | 212 | 2400                         | 94  | Thermofix       | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (pulley/cylinder side) | Rough structure | Yellow  | Polyamide (PA)  | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (whirl side) | Rough structure                 | Light green | Double-sided power transmission | ●                      | 2                      |                           |
|                                    |                         | S-33/30   | 3.0            | 0.12 | 110                       | 4.3 | 110   | 4.3 | 12.5  | 71     | 33   | 103    | -20  | -4  | 100  | 212 | 2400                         | 94  | Thermofix       | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (pulley/cylinder side) | Rough structure | Yellow  | Polyamide (PA)  | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (whirl side) | Rough structure                 | Light green | Double-sided power transmission | ●                      | 2                      |                           |
|                                    |                         | S-33/40   | 4.0            | 0.16 | 110                       | 4.3 | 110   | 4.3 | 12.5  | 71     | 33   | 188    | -20  | -4  | 100  | 212 | 2400                         | 94  | Thermofix       | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (pulley/cylinder side) | Rough structure | Yellow  | Polyamide (PA)  | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (whirl side) | Rough structure                 | Light green | Double-sided power transmission | ●                      | 2                      |                           |
|                                    |                         | S-33/50   | 5.0            | 0.20 | 110                       | 4.3 | 110   | 4.3 | 12.6  | 72     | 33   | 188    | -20  | -4  | 100  | 212 | 2400                         | 94  | Thermofix       | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (pulley/cylinder side) | Rough structure | Yellow  | Polyamide (PA)  | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (whirl side) | Rough structure                 | Light green | Double-sided power transmission | ●                      | 2                      |                           |
|                                    |                         | S-140H    | 1.7            | 0.07 | 25                        | 1.0 | 25  | 1.0 | 6.0   | 34     | 14   | 80     | -20  | -4  | 100  | 212 | 1200                         | 47  | Thermofix       | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (pulley/cylinder side) | Rough structure | Yellow  | Polyamide (PA)  | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (whirl side) | Fine structure                  | Green       | Double-sided power transmission | ●                      | 2                      |                           |
|                                    |                         | S-141H    | 2.3            | 0.09 | 25                        | 1.0 | 25  | 1.0 | 6.0   | 34     | 14   | 80     | -20  | -4  | 100  | 212 | 1200                         | 47  | Thermofix       | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (pulley/cylinder side) | Rough structure | Yellow  | Polyamide (PA)  | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (whirl side) | Fine structure                  | Green       | Double-sided power transmission | ●                      | 2                      |                           |
|                                    |                         | S-250H    | 2.3            | 0.09 | 60                        | 2.4 | 60  | 2.4 | 12.0  | 69     | 25   | 143    | -20  | -4  | 100  | 212 | 1200                         | 47  | Thermofix       | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (pulley/cylinder side) | Rough structure | Yellow  | Polyamide (PA)  | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (whirl side) | Fine structure                  | Green       | Double-sided power transmission | ●                      | 2                      |                           |
|                                    |                         | S-250HR   | 2.6            | 0.10 | 60                        | 2.4 | 60  | 2.4 | 12.0  | 69     | 25   | 143    | -20  | -4  | 100  | 212 | 1200                         | 47  | Thermofix       | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (pulley/cylinder side) | Rough structure | Yellow  | Polyamide (PA)  | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (whirl side) | Rough structure                 | Green       | Double-sided power transmission | ●                      | 2                      |                           |
|                                    |                         | S-251H    | 3.0            | 0.12 | 60                        | 2.4 | 60  | 2.4 | 12.0  | 69     | 25   | 143    | -20  | -4  | 100  | 212 | 1200                         | 47  | Thermofix       | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (pulley/cylinder side) | Rough structure | Yellow  | Polyamide (PA)  | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (whirl side) | Rough structure                 | Green       | Double-sided power transmission | ●                      | 2                      |                           |
|                                    |                         | S-321H    | 3.2            | 0.13 | 100                       | 4.0 | 100   | 4.0 | 15.0  | 86     | 32   | 183    | -20  | -4  | 100  | 212 | 1200                         | 47  | Thermofix       | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (pulley/cylinder side) | Rough structure | Yellow  | Polyamide (PA)  | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (whirl side) | Rough structure                 | Green       | Double-sided power transmission | ●                      | 2                      |                           |
|                                    |                         | S-390H    | 3.2            | 0.13 | 120                       | 4.7 | 120   | 4.7 | 17.0  | 97     | 39   | 223    | -20  | -4  | 100  | 212 | 1200                         | 47  | Thermofix       | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (pulley/cylinder side) | Rough structure | Yellow  | Polyamide (PA)  | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (whirl side) | Rough structure                 | Green       | Double-sided power transmission | ●                      | 2                      |                           |
| S-391H                             | 4.0                     | 0.16      | 120            | 4.7  | 120                       | 4.7 | 17.0  | 97  | 39  | 223    | -20  | -4     | 100  | 212 | 1200   | 47  | Thermofix                    | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (pulley/cylinder side) | Rough structure | Yellow  | Polyamide (PA)  | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (whirl side) | Rough structure | Green   | Double-sided power transmission | ●           | 2                               |                        |                        |                           |

See separate overview  
Pages 70-73

# Power transmission belts

● yes  
- no

| Product Group                   | Product Sub-Group        | Belt Type | Technical Data |      |                           |     |  |     |   |        |  |        |  |    |  |     |                              |    | Joining System | Product Construction/Design          |                 |          |                |   |                 |       |                                 | Product Characteristic |                        | Chemical Resistance Class |
|---------------------------------|--------------------------|-----------|----------------|------|---------------------------|-----|--|-----|---|--------|--|--------|--|----|--|-----|------------------------------|----|----------------|--------------------------------------|-----------------|----------|----------------|---|-----------------|-------|---------------------------------|------------------------|------------------------|---------------------------|
|                                 |                          |           | Thickness      |      | Pulley diameter (minimum) |     | Pulley diameter (minimum) with counter flexion |     | Tensile force for 1% elongation (k1% after running in) per unit of width (Habasit standard 320.013) |        | Nominal peripheral force per unit of width |        | Operating temperature admissible (continuous) Min. |    | Operating temperature admissible (continuous) Max. |     | Seamless manufacturing width |    |                | Friction cover                       |                 |          | Traction Layer |   | Reverse cover   |       |                                 | Drive determination    | Permanently antistatic |                           |
|                                 |                          |           | mm             | in   | mm                        | in  | mm   | in  | N/mm  | lbs/in | N/mm                                       | lbs/in | °C   | °F | °C   | °F  | mm                           | in | Material       | Surface                              | Color           | Material | Material       | Surface   | Color           |       |                                 |                        |                        |                           |
| Aramid power transmission belts | TF-Tangential/flat belts | TF-10     | 1.7            | 0.07 | 25                        | 1.0 | 25   | 1.0 | 10.0  | 57     | 10   | 57     | -20  | -4 | 65   | 149 | 1200                         | 47 | Flexproof      | Acrylonitrile-Butadiene-Rubber (NBR) | Fine structure  | Black    | Aramid         | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (whirl side) | Fine structure  | Green | Double-sided power transmission | ●                      | 2                      |                           |
|                                 |                          | TF-15     | 2.0            | 0.08 | 32                        | 1.3 | 32   | 1.3 | 15.0  | 86     | 15   | 86     | -20  | -4 | 65   | 149 | 1200                         | 47 | Flexproof      | Acrylonitrile-Butadiene-Rubber (NBR) | Rough structure | Black    | Aramid         | Acrylonitrile-Butadiene-Rubber (NBR)                                | Fine structure  | Green | Double-sided power transmission | ●                      | 2                      |                           |
|                                 |                          | TF-15H    | 1.5            | 0.06 | 32                        | 1.3 | 32   | 1.3 | 15.0  | 86     | 15   | 86     | -20  | -4 | 65   | 149 | 1200                         | 47 | Flexproof      | Hamid                                | Fine structure  | White    | Aramid         | Hamid   | Fine structure  | White | Double-sided power transmission | ●                      | 2                      |                           |
|                                 |                          | TF-22     | 2.4            | 0.09 | 63                        | 2.5 | 63   | 2.5 | 22.0  | 126    | 22   | 126    | -20  | -4 | 65   | 149 | 1100                         | 43 | Flexproof      | Acrylonitrile-Butadiene-Rubber (NBR) | Rough structure | Black    | Aramid         | Acrylonitrile-Butadiene-Rubber (NBR)                                | Rough structure | Green | Double-sided power transmission | ●                      | 2                      |                           |
|                                 |                          | TF-33     | 3.0            | 0.12 | 90                        | 3.5 | 90   | 3.5 | 33.0  | 188    | 33   | 188    | -20  | -4 | 65   | 149 | 1100                         | 43 | Flexproof      | Acrylonitrile-Butadiene-Rubber (NBR) | Rough structure | Black    | Aramid         | Acrylonitrile-Butadiene-Rubber (NBR)                                | Rough structure | Green | Double-sided power transmission | ●                      | 2                      |                           |
|                                 |                          | TF-50     | 3.9            | 0.15 | 140                       | 5.5 | 140  | 5.5 | 50.0  | 286    | 50   | 286    | -20  | -4 | 65   | 149 | 1100                         | 43 | Flexproof      | Acrylonitrile-Butadiene-Rubber (NBR) | Rough structure | Black    | Aramid         | Acrylonitrile-Butadiene-Rubber (NBR)                                | Rough structure | Green | Double-sided power transmission | ●                      | 2                      |                           |
|                                 |                          | TF-75TE   | 4.4            | 0.17 | 200                       | 8.0 | 200  | 8.0 | 75.0  | 428    | 75   | 428    | -20  | -4 | 65   | 149 | 1100                         | 43 | Flexproof      | Acrylonitrile-Butadiene-Rubber (NBR) | Rough structure | Black    | Aramid         | Polyester (PET)/Cotton (CO) fabric as friction cover (reverse side) | Fabric          | Green | One-sided power transmission    | ●                      | 2                      |                           |

See separate overview  
Pages 70-73

# Power transmission belts

● yes  
- no

| Product Group                      | Product Sub-Group        | Belt Type  | Technical Data |      |                           |     |  |     |   |        |  |        |  |    |  |     |                              |    | Joining System | Product Construction/Design   |                 |                |   |   |                        |             |                                 | Product Characteristic |          | Chemical Resistance Class |
|------------------------------------|--------------------------|------------|----------------|------|---------------------------|-----|--|-----|---|--------|--|--------|--|----|--|-----|------------------------------|----|----------------|---|-----------------|----------------|---|---|------------------------|-------------|---------------------------------|------------------------|----------|---------------------------|
|                                    |                          |            | Thickness      |      | Pulley diameter (minimum) |     | Pulley diameter (minimum) with counter flexion |     | Tensile force for 1% elongation (k1% after running in) per unit of width (Habasit standard 320.013) |        | Nominal peripheral force per unit of width |        | Operating temperature admissible (continuous) Min. |    | Operating temperature admissible (continuous) Max. |     | Seamless manufacturing width |    |                | Standard  | Friction cover  | Traction Layer | Reverse cover                           | Drive determination   | Permanently antistatic |             |                                 |                        |          |                           |
|                                    |                          |            | mm             | in   | mm                        | in  | mm   | in  | N/mm  | lbs/in | N/mm                                       | lbs/in | °C   | °F | °C   | °F  | mm                           | in |                |   |                 |                |   |   |                        | Material    | Surface                         | Color                  | Material |                           |
| Polyester power transmission belts | TC-Tangential/flat belts | TC-20EF    | 2.0            | 0.08 | 25                        | 1.0 | 25   | 1.0 | 10.0  | 57     | 20   | 114    | -20  | -4 | 70   | 158 | 1100                         | 43 | Flexproof      | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (pulley/cylinder side) | Rough structure | Black          | Polyester fabric (PET)                  | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (whirl side) | Fine structure         | Light green | Double-sided power transmission | ●                      | 2        |                           |
|                                    |                          | TC-20/25EF | 2.5            | 0.10 | 50                        | 2.0 | 50   | 2.0 | 12.0  | 69     | 25   | 143    | -20  | -4 | 70   | 158 | 1100                         | 43 | Flexproof      | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (pulley/cylinder side) | Rough structure | Black          | Polyester fabric (PET)                  | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (whirl side) | Fine structure         | Light green | Double-sided power transmission | ●                      | 2        |                           |
|                                    |                          | TC-35ER    | 2.5            | 0.10 | 50                        | 2.0 | 50   | 2.0 | 17.0  | 97     | 35   | 200    | -20  | -4 | 70   | 158 | 1100                         | 43 | Flexproof      | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (pulley/cylinder side) | Rough structure | Black          | Polyester fabric (PET)                  | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (whirl side) | Rough structure        | Light green | Double-sided power transmission | ●                      | 2        |                           |
|                                    |                          | TC-35/30ER | 3.0            | 0.12 | 50                        | 2.0 | 50   | 2.0 | 17.0  | 97     | 35   | 200    | -20  | -4 | 70   | 158 | 1100                         | 43 | Flexproof      | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (pulley/cylinder side) | Rough structure | Black          | Polyester fabric (PET)                  | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (whirl side) | Rough structure        | Light green | Double-sided power transmission | ●                      | 2        |                           |
|                                    |                          | TC-35/35ER | 3.5            | 0.14 | 50                        | 2.0 | 70   | 2.8 | 17.0  | 97     | 35   | 200    | -20  | -4 | 70   | 158 | 1100                         | 43 | Flexproof      | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (pulley/cylinder side) | Rough structure | Black          | Polyester fabric (PET)                  | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (whirl side) | Rough structure        | Light green | Double-sided power transmission | ●                      | 2        |                           |
|                                    |                          | TC-55ER    | 3.0            | 0.12 | 70                        | 2.8 | 70   | 2.8 | 26.0  | 148    | 55   | 314    | -20  | -4 | 70   | 158 | 1100                         | 43 | Flexproof      | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (pulley/cylinder side) | Rough structure | Black          | Polyester fabric (PET)                  | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (whirl side) | Rough structure        | Light green | Double-sided power transmission | ●                      | 2        |                           |
|                                    | TCF-Flat belts           | TCF-20E    | 2.2            | 0.09 | 50                        | 2.0 | 50   | 2.0 | 12.0  | 69     | 25   | 143    | -20  | -4 | 70   | 158 | 1100                         | 43 | Flexproof      | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (pulley/cylinder side) | Rough structure | Black          | PET fabric (Polyethylen-eterephthalate) | Hamid foil  | Fine structure         | White       | One-sided power transmission    | ●                      | 2        |                           |
|                                    |                          | TCF-35E    | 2.6            | 0.10 | 50                        | 2.0 | 50   | 2.0 | 17.0  | 97     | 35   | 200    | -20  | -4 | 70   | 158 | 1100                         | 43 | Flexproof      | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (pulley/cylinder side) | Rough structure | Black          | PET fabric (Polyethylen-eterephthalate) | Hamid foil  | Fine structure         | White       | One-sided power transmission    | ●                      | 2        |                           |
|                                    |                          | TCF-50H    | 2.0            | 0.08 | 60                        | 2.4 | 60   | 2.4 | 23.0  | 131    | 50   | 286    | -20  | -4 | 70   | 158 | 1100                         | 43 | Flexproof      | Hamid Foil  | Fine structure  | White          | PET fabric (Polyethylen-eterephthalate) | Hamid foil  | Fine structure         | White       | Double-sided power transmission | ●                      | 2        |                           |
|                                    |                          | TCF-55E    | 2.7            | 0.11 | 70                        | 2.8 | 70   | 2.8 | 26.0  | 148    | 55   | 314    | -20  | -4 | 70   | 158 | 1100                         | 43 | Flexproof      | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (pulley/cylinder side) | Rough structure | Black          | PET fabric (Polyethylen-eterephthalate) | Hamid foil  | Fine structure         | White       | One-sided power transmission    | ●                      | 2        |                           |
|                                    |                          | CM-18/30F  | 3.2            | 0.13 | 60                        | 2.4 | 60   | 2.4 | 15.0  | 86     | 43   | 246    | -20  | -4 | 65   | 149 | 1200                         | 47 | Flexproof      | Acrylonitrile-Butadiene-Rubber (NBR)  | Rough structure | Green          | PET fabric (Polyethylen-eterephthalate) | Acrylonitrile-Butadiene-Rubber (NBR)                                | Rough structure        | Green       | Double-sided power transmission | ●                      | 2        |                           |

See separate overview  
Pages 70-73