# Wheel Selection Guide

| | | | FLOOR SURFACES | | | | | | | | | | OPERATING CONDITIONS | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WHEEL TYPE | CAPACITY (LBS EACH) | RANGE (FAHRENHEIT) | CARPET | BRICK | CONCRETE | LINOLEUM | ASPHALT | TERRAZZO | WOOD | SMOOTH STEEL | RIBBED STEEL | TILE | WATER | STEAM | MILD CHEMICALS | OIL GREASE | METAL CHIPS | HIGH HEAT (+250 °F) | EXTREME COLD (-45 °F) | ANIMAL FATS | NOISE REDUCTION | FLOOR PROTECTION | CUSHION LOAD | DUROMETER RATINGS | PAGE NUMBER |
| ALThane (ALT) | 750 - 1,400 | -45°F to 180°F | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | | | 65 - 70 D | 134 |
| Balloon Cushion (BARG) | 350 - 550 | -30°F to 180°F | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | 65 - 70 A | 135 |
| Envirothane (U) | 75 - 1,600 | -45°F to 230°F | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | 45 - 65 D | 116,117 |
| Hard Rubber (HR) | 100 - 275 | -45°F to 160°F | ✓ | ✓ | ✓ | | | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | | | 70 - 80 D | 146 |
| High Temp. Phenolic (HTPH) | 200 - 1,100 | -40°F to 475°F | ✓ | ✓ | ✓ | | | | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | | ✓ | | 102 Rockwell E | 122,123 |
| ICE (ICE) | 80 - 100 | -45°F to 180°F | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | | | 50 - 60 D | 141 |
| Lava (LV) | 600 - 1,300 | -45°F to 475°F | ✓ | ✓ | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | 85 (+/-5) D | 118 |
| Moldon Aluminum Rubber (MAR) | 250 - 600 | -45°F to 160°F | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | 65 - 75 Shore A | 143 |
| Moldon Aluminum Urethane (MAU) | 700 - 1,500 | -45°F to 180°F | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | 90 - 95 A | 142 |
| Moldon Polyolefin Urethane (MPU) | 500 - 1,400 | -45°F to 180°F | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | | 50 - 60 D | 124 |
| Moldon Rubber (MR) | 250 - 1,600 | -40°F to 180°F | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | 65 - 75 A | 130,131 |
| Moldon Urethane (UR) | 600 - 6,600 | -20°F to 175°F | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | 92 - 95 A | 126-128 |
| Nyroll (NYN) | 800 - 1,800 | -45°F to 200°F | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | 73 - 78 D | 129 |
| Phenolic (PH) | 400 - 4,000 | -50°F to 250°F | ✓ | ✓ | ✓ | | | | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | | 102 Rockwell E | 122,123 |
| Pneumatic (PN) | 275 - 620 | -20°F to 130°F | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | -- | 136 |
| Pneumatic Foam (PF) | 210 - 250 | -20°F to 130°F | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | ✓ | ✓ | ✓ | ✓ | -- | 137 |
| Polyolefin (PO) | 25 - 900 | -20°F to 180°F | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | | 65 - 70 D | 132,133 |
| ProTech (PRO) | 75 - 1,200 | -45°F to 180°F | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | 65 - 78 (+/-) A | 120,121 |
| RollX (RX) | 400 -1,400 | -45°F to 180°F | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | 85 (+/-5) D | 119 |
| Semi-Pneumatic (SPN) | 70 - 250 | -20°F to 130°F | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 85 - 90 A | 147 |
| Shopping Cart (PLY) | 30 - 300 | -45°F to 180°F | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | 90 - 95 A | 125 |
| Soft Rubber (SR) | 80 - 350 | -45°F to 160°F | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | 70 - 80 A | 144,145 |
| Steel (SS & ST) | 125 - 20,000 | -45°F to 180°F* | | | ✓ | | ✓ | | ✓ | ✓ | | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | 95 - 98 Shore D | 138-140 |
| V Groove (VG) | 300 - 15,000 | -45°F to 180°F* | | | ✓ | | ✓ | | ✓ | ✓ | | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | 95 - 98 Shore D | 148,149 |

* -45°F - 800°F with Steel Roller bearing & Steel Side washer