

■ Bulk Density (Cont. from previous page)

| Medium | Density (g/cm ³) | Abrasion | Build-up |
|--------------------|------------------------------|----------|----------|
| Soap | 0.16 | | |
| Soda Ash | 1.20-1.28 | Yes | |
| Sodium Bicarbonate | 0.87-1.05 | | |
| Sodium Hydroxide | 1.15-1.36 | | |
| Soybean Powder | 0.52-0.87 | | |
| Starch | 0.2-0.3 | Yes | |
| Sulfur Powder | 0.58-0.97 | | |
| Sugar Powder | 0.47-0.87 | | |
| Talc | 0.27-0.48 | Yes | Yes |
| Teflon Powder | 0.15-0.68 | | |
| Tin | 3.62-4.12 | | |
| Titanium Oxide | 0.49-0.76 | | |
| Tungsten Carbide | 7.54-8.95 | | |
| Tungsten Powder | 0.05-2.0 | | |
| Urea | 0.47-0.76 | | |
| Urea Resin Powder | 0.42-0.74 | | |
| Vermiculite | 0.05-0.065 | | |
| White Carbon | 0.05-0.19 | | |
| Wheat Flour | 0.3-0.5 | | |
| Wheat Grain | 0.77 | | |
| Wood Chips | 0.30-0.40 | | |
| Xerox Toner | 0.49 | | |
| Yeast Powder | 0.33-0.37 | | |
| Zinc Oxide | 0.58-1.26 | | |
| Zinc Powder | 2.98-3.62 | | |
| Zircon Sand | 2.60-2.82 | | |



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| Tungsten Powder | 0.05-2.0 | | |
| Urea | 0.47-0.76 | | |
| Urea Resin Powder | 0.42-0.74 | | |
| Vermiculite | 0.05-0.065 | | |
| White Carbon | 0.05-0.19 | | |
| Wheat Flour | 0.3-0.5 | | |
| Wheat Grain | 0.77 | | |
| Wood Chips | 0.30-0.40 | | |
| Xerox Toner | 0.49 | | |
| Yeast Powder | 0.33-0.37 | | |
| Zinc Oxide | 0.58-1.26 | | |
| Zinc Powder | 2.98-3.62 | | |
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| Urea | 0.47-0.76 | | |
| Urea Resin Powder | 0.42-0.74 | | |
| Vermiculite | 0.05-0.065 | | |
| White Carbon | 0.05-0.19 | | |
| Wheat Flour | 0.3-0.5 | | |
| Wheat Grain | 0.77 | | |
| Wood Chips | 0.30-0.40 | | |
| Xerox Toner | 0.49 | | |
| Yeast Powder | 0.33-0.37 | | |
| Zinc Oxide | 0.58-1.26 | | |
| Zinc Powder | 2.98-3.62 | | |
| Zircon Sand | 2.60-2.82 | | |



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Technical Reference — Bulk Densities

■ Bulk Density

| Medium | Density (g/cm ³) | Abrasion | Build-up |
|---------------------------|------------------------------|----------|----------|
| ABS Pellet | 0.4-0.6 | | |
| ABS Powder | 0.4-0.6 | | |
| ABS Resin | 0.34-0.42 | | |
| Acrylate Resin | 0.4-0.5 | | |
| Activated Carbon | | | |
| Alabaster | 1.33-1.55 | | |
| Aluminum Hydroxide | 0.22 | | |
| Aluminum Powder | 1.26 | Yes | |
| Aluminum Sulfate | 0.97-1.23 | | |
| Ammonium Nitrate | 1-1.16 | | |
| Ammonium Sulfate | 0.64 | | |
| Asphalt Pellets | 0.57-0.68 | | |
| Asphalt Powder | 0.75-0.94 | | |
| Bauxite | 1.07-1.45 | | |
| Bentonite | 0.5-1.22 | Yes | |
| Borax | 0.92-1.04 | | |
| Calcite | 1.41-1.89 | | |
| Calcium Carbonate (heavy) | 0.5-1.28 | | |
| Calcium Carbonate (light) | 0.2-0.5 | Yes | |
| Carbon Black | 0.25-0.49 | Yes | |
| Cement | 1.3-1.4 | Yes | Yes |
| Charcoal | 0.43 | | |
| Chinastone | 1.15-1.34 | | |
| Clay | 0.36-0.9 | Yes | Yes |
| Clinker | 1.3-1.9 | Yes | |
| Coffee Grounds | 0.22-0.66 | | |
| Coke | 0.40-0.49 | | |
| Colcothar | 0.55-1.21 | | |
| Common Ssalt | 1.15-1.34 | | |
| Copper Powder | 1.77-2.74 | | |
| Copper Sulfate | 1.10-1.34 | | |
| Corn | 0.7-0.8 | | |
| Corn Starch | 0.2-0.69 | Yes | |
| Detergent | 0.31-0.38 | | |
| Diatomaceous Earth | 0.1-0.29 | Yes | Yes |
| Dolomite | 0.74 | | |
| Epoxy Resin | 0.63-0.82 | | |
| Ferrite | 0.5-2.25 | | |
| Fire Extinguisher | 0.95-1.55 | | |
| Fish Meal | 0.45-0.66 | | |
| Flour | 0.48-0.55 | | |
| Fluorspat | 0.59-2.10 | | |
| Fly Ash | 0.51-0.95 | Yes | Yes |
| Glass Beads | 1.50-1.55 | | |
| Glass Fiber | 0.2-0.3 | | |
| Glaubers Salt | 1.41-1.78 | | |
| Granulated Sugar | 0.8-0.9 | | |

| Medium | Density (g/cm ³) | Abrasion | Build-up |
|----------------------|------------------------------|----------|----------|
| Gypsum | 0.7-1.55 | Yes | Yes |
| Iron Ore | 3.80 | | |
| Iron Oxide | 0.4 | | |
| Iron Powder | 2.21-3.60 | | |
| Lime Powder | 0.43-0.72 | | |
| Limestone | 1.36-1.57 | | |
| Magnesium Oxide | 0.1-0.76 | Yes | |
| Masterbatch | 0.4-0.5 | Yes | |
| Melamine | 0.42-0.79 | | |
| Metal Cutting Chips | 1.5-1.8 | Yes | |
| Mica Powder | .58-0.81 | Yes | |
| Milk Powder | 0.31 | | |
| Mirabilite | 1.4-1.5 | | |
| Nylon Resin | 0.4-0.6 | | |
| Paste Resin | 0.20-0.39 | | |
| PE Pellet | 0.5-0.6 | | |
| Perlite | 0.02-0.5 | Yes | |
| Pesticide | 0.5-1.0 | | |
| PET Resin | 0.4-0.6 | | |
| Phenolic Resin | 0.34-0.6 | | |
| Pigment | 0.1-0.5 | Yes | |
| Pitch | 0.29-0.95 | | |
| Polycarbonate | 0.5-0.6 | | |
| Polyester Resin | 0.4-0.6 | | |
| Polyethylene Pellet | 0.48-0.50 | | |
| Polypropylene Pellet | 0.6 | | |
| Polystyrene Pellet | 0.58 | | |
| Powdery Pulp | 0.05-0.1 | | |
| PP Pellet | 0.4-0.6 | | |
| PS Pellet | 0.4-0.6 | | |
| PVC Pellet | 0.5-0.6 | | |
| PVC Powder | 0.4-0.76 | | |
| Quicklime | 0.3-0.9 | Yes | |
| Red Iron Oxide | | Yes | |
| Rice Bran | 0.2-0.76 | Yes | |
| Rice Powder | 0.47-0.91 | | |
| River Sand | 1.45-1.65 | | |
| Rock Salt | 1.20-1.30 | | |
| Rubbish | 0.25-0.3 | | |
| Salt | 0.55 | | |
| Sand | 1.36-1.57 | | |
| Saw Dust | 0.16-0.20 | | |
| Silica Sand | 0.8-1.41 | Yes | |
| Silicone Carbide | 1.53-1.79 | | |
| Slag | 0.96-1.0 | Yes | |
| Slaked Lime | 0.2-0.79 | Yes | |

Continued on next page

Note: If Density is less than 0.2, See VH series

Technical Reference — Bulk Densities

■ Bulk Density

| Medium | Density (g/cm ³) | Abrasion | Build-up |
|---------------------------|------------------------------|----------|----------|
| ABS Pellet | 0.4-0.6 | | |
| ABS Powder | 0.4-0.6 | | |
| ABS Resin | 0.34-0.42 | | |
| Acrylate Resin | 0.4-0.5 | | |
| Activated Carbon | | | |
| Alabaster | 1.33-1.55 | | |
| Aluminum Hydroxide | 0.22 | | |
| Aluminum Powder | 1.26 | Yes | |
| Aluminum Sulfate | 0.97-1.23 | | |
| Ammonium Nitrate | 1-1.16 | | |
| Ammonium Sulfate | 0.64 | | |
| Asphalt Pellets | 0.57-0.68 | | |
| Asphalt Powder | 0.75-0.94 | | |
| Bauxite | 1.07-1.45 | | |
| Bentonite | 0.5-1.22 | Yes | |
| Borax | 0.92-1.04 | | |
| Calcite | 1.41-1.89 | | |
| Calcium Carbonate (heavy) | 0.5-1.28 | | |
| Calcium Carbonate (light) | 0.2-0.5 | Yes | |
| Carbon Black | 0.25-0.49 | Yes | |
| Cement | 1.3-1.4 | Yes | Yes |
| Charcoal | 0.43 | | |
| Chinastone | 1.15-1.34 | | |
| Clay | 0.36-0.9 | Yes | Yes |
| Clinker | 1.3-1.9 | Yes | |
| Coffee Grounds | 0.22-0.66 | | |
| Coke | 0.40-0.49 | | |
| Colcothar | 0.55-1.21 | | |
| Common Ssalt | 1.15-1.34 | | |
| Copper Powder | 1.77-2.74 | | |
| Copper Sulfate | 1.10-1.34 | | |
| Corn | 0.7-0.8 | | |
| Corn Starch | 0.2-0.69 | Yes | |
| Detergent | 0.31-0.38 | | |
| Diatomaceous Earth | 0.1-0.29 | Yes | Yes |
| Dolomite | 0.74 | | |
| Epoxy Resin | 0.63-0.82 | | |
| Ferrite | 0.5-2.25 | | |
| Fire Extinguisher | 0.95-1.55 | | |
| Fish Meal | 0.45-0.66 | | |
| Flour | 0.48-0.55 | | |
| Fluorspat | 0.59-2.10 | | |
| Fly Ash | 0.51-0.95 | Yes | Yes |
| Glass Beads | 1.50-1.55 | | |
| Glass Fiber | 0.2-0.3 | | |
| Glaubers Salt | 1.41-1.78 | | |
| Granulated Sugar | 0.8-0.9 | | |

| Medium | Density (g/cm ³) | Abrasion | Build-up |
|----------------------|------------------------------|----------|----------|
| Gypsum | 0.7-1.55 | Yes | Yes |
| Iron Ore | 3.80 | | |
| Iron Oxide | 0.4 | | |
| Iron Powder | 2.21-3.60 | | |
| Lime Powder | 0.43-0.72 | | |
| Limestone | 1.36-1.57 | | |
| Magnesium Oxide | 0.1-0.76 | Yes | |
| Masterbatch | 0.4-0.5 | Yes | |
| Melamine | 0.42-0.79 | | |
| Metal Cutting Chips | 1.5-1.8 | Yes | |
| Mica Powder | .58-0.81 | Yes | |
| Milk Powder | 0.31 | | |
| Mirabilite | 1.4-1.5 | | |
| Nylon Resin | 0.4-0.6 | | |
| Paste Resin | 0.20-0.39 | | |
| PE Pellet | 0.5-0.6 | | |
| Perlite | 0.02-0.5 | Yes | |
| Pesticide | 0.5-1.0 | | |
| PET Resin | 0.4-0.6 | | |
| Phenolic Resin | 0.34-0.6 | | |
| Pigment | 0.1-0.5 | Yes | |
| Pitch | 0.29-0.95 | | |
| Polycarbonate | 0.5-0.6 | | |
| Polyester Resin | 0.4-0.6 | | |
| Polyethylene Pellet | 0.48-0.50 | | |
| Polypropylene Pellet | 0.6 | | |
| Polystyrene Pellet | 0.58 | | |
| Powdery Pulp | 0.05-0.1 | | |
| PP Pellet | 0.4-0.6 | | |
| PS Pellet | 0.4-0.6 | | |
| PVC Pellet | 0.5-0.6 | | |
| PVC Powder | 0.4-0.76 | | |
| Quicklime | 0.3-0.9 | Yes | |
| Red Iron Oxide | | Yes | |
| Rice Bran | 0.2-0.76 | Yes | |
| Rice Powder | 0.47-0.91 | | |
| River Sand | 1.45-1.65 | | |
| Rock Salt | 1.20-1.30 | | |
| Rubbish | 0.25-0.3 | | |
| Salt | 0.55 | | |
| Sand | 1.36-1.57 | | |
| Saw Dust | 0.16-0.20 | | |
| Silica Sand | 0.8-1.41 | Yes | |
| Silicone Carbide | 1.53-1.79 | | |
| Slag | 0.96-1.0 | Yes | |
| Slaked Lime | 0.2-0.79 | Yes | |

Continued on next page

Note: If Density is less than 0.2, See VH series

■ Bulk Density

| Medium | Density (g/cm ³) | Abrasion | Build-up |
|---------------------------|------------------------------|----------|----------|
| ABS Pellet | 0.4-0.6 | | |
| ABS Powder | 0.4-0.6 | | |
| ABS Resin | 0.34-0.42 | | |
| Acrylate Resin | 0.4-0.5 | | |
| Activated Carbon | | | |
| Alabaster | 1.33-1.55 | | |
| Aluminum Hydroxide | 0.22 | | |
| Aluminum Powder | 1.26 | Yes | |
| Aluminum Sulfate | 0.97-1.23 | | |
| Ammonium Nitrate | 1-1.16 | | |
| Ammonium Sulfate | 0.64 | | |
| Asphalt Pellets | 0.57-0.68 | | |
| Asphalt Powder | 0.75-0.94 | | |
| Bauxite | 1.07-1.45 | | |
| Bentonite | 0.5-1.22 | Yes | |
| Borax | 0.92-1.04 | | |
| Calcite | 1.41-1.89 | | |
| Calcium Carbonate (heavy) | 0.5-1.28 | | |
| Calcium Carbonate (light) | 0.2-0.5 | Yes | |
| Carbon Black | 0.25-0.49 | Yes | |
| Cement | 1.3-1.4 | Yes | Yes |
| Charcoal | 0.43 | | |
| Chinastone | 1.15-1.34 | | |
| Clay | 0.36-0.9 | Yes | Yes |
| Clinker | 1.3-1.9 | Yes | |
| Coffee Grounds | 0.22-0.66 | | |
| Coke | 0.40-0.49 | | |
| Colcothar | 0.55-1.21 | | |
| Common Ssalt | 1.15-1.34 | | |
| Copper Powder | 1.77-2.74 | | |
| Copper Sulfate | 1.10-1.34 | | |
| Corn | 0.7-0.8 | | |
| Corn Starch | 0.2-0.69 | Yes | |
| Detergent | 0.31-0.38 | | |
| Diatomaceous Earth | 0.1-0.29 | Yes | Yes |
| Dolomite | 0.74 | | |
| Epoxy Resin | 0.63-0.82 | | |
| Ferrite | 0.5-2.25 | | |
| Fire Extinguisher | 0.95-1.55 | | |
| Fish Meal | 0.45-0.66 | | |
| Flour | 0.48-0.55 | | |
| Fluorspat | 0.59-2.10 | | |
| Fly Ash | 0.51-0.95 | Yes | Yes |
| Glass Beads | 1.50-1.55 | | |
| Glass Fiber | 0.2-0.3 | | |
| Glaubers Salt | 1.41-1.78 | | |
| Granulated Sugar | 0.8-0.9 | | |

| Medium | Density (g/cm ³) | Abrasion | Build-up |
|----------------------|------------------------------|----------|----------|
| Gypsum | 0.7-1.55 | Yes | Yes |
| Iron Ore | 3.80 | | |
| Iron Oxide | 0.4 | | |
| Iron Powder | 2.21-3.60 | | |
| Lime Powder | 0.43-0.72 | | |
| Limestone | 1.36-1.57 | | |
| Magnesium Oxide | 0.1-0.76 | Yes | |
| Masterbatch | 0.4-0.5 | Yes | |
| Melamine | 0.42-0.79 | | |
| Metal Cutting Chips | 1.5-1.8 | Yes | |
| Mica Powder | .58-0.81 | Yes | |
| Milk Powder | 0.31 | | |
| Mirabilite | 1.4-1.5 | | |
| Nylon Resin | 0.4-0.6 | | |
| Paste Resin | 0.20-0.39 | | |
| PE Pellet | 0.5-0.6 | | |
| Perlite | 0.02-0.5 | Yes | |
| Pesticide | 0.5-1.0 | | |
| PET Resin | 0.4-0.6 | | |
| Phenolic Resin | 0.34-0.6 | | |
| Pigment | 0.1-0.5 | Yes | |
| Pitch | 0.29-0.95 | | |
| Polycarbonate | 0.5-0.6 | | |
| Polyester Resin | 0.4-0.6 | | |
| Polyethylene Pellet | 0.48-0.50 | | |
| Polypropylene Pellet | 0.6 | | |
| Polystyrene Pellet | 0.58 | | |
| Powdery Pulp | 0.05-0.1 | | |
| PP Pellet | 0.4-0.6 | | |
| PS Pellet | 0.4-0.6 | | |
| PVC Pellet | 0.5-0.6 | | |
| PVC Powder | 0.4-0.76 | | |
| Quicklime | 0.3-0.9 | Yes | |
| Red Iron Oxide | | Yes | |
| Rice Bran | 0.2-0.76 | Yes | |
| Rice Powder | 0.47-0.91 | | |
| River Sand | 1.45-1.65 | | |
| Rock Salt | 1.20-1.30 | | |
| Rubbish | 0.25-0.3 | | |
| Salt | 0.55 | | |
| Sand | 1.36-1.57 | | |
| Saw Dust | 0.16-0.20 | | |
| Silica Sand | 0.8-1.41 | Yes | |
| Silicone Carbide | 1.53-1.79 | | |
| Slag | 0.96-1.0 | Yes | |
| Slaked Lime | 0.2-0.79 | Yes | |

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Note: If Density is less than 0.2, See VH series