

# Density of Aluminum

A comprehensive dataset containing aluminum alloy grades and their corresponding density values in grams per cubic centimeter (g/cm³). This dataset includes 85 different aluminum alloy grades with precise density measurements for engineering and manufacturing applications.

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## Measured Variables

- Aluminum Alloy Grade: The standard designation for aluminum alloy grades - Density: Material density measured in grams per cubic centimeter (Unit: g/cm³)

## 1000 Series Aluminum Alloys

Pure aluminum alloys with 99% or higher aluminum content

| Aluminum Alloy Grade | Density (g/cm³) |
|----------------------|-----------------|
| 1050                 | 2.71            |
| 1060                 | 2.71            |
| 1100                 | 2.71            |
| 1145                 | 2.7             |
| 1175                 | 2.7             |
| 1200                 | 2.7             |
| 1230                 | 2.7             |
| 1235                 | 2.71            |
| 1345                 | 2.71            |
| 1350                 | 2.71            |

## 2000 Series Aluminum Alloys

Aluminum-copper alloys with high strength properties

| Aluminum Alloy Grade | Density (g/cm³) |
|----------------------|-----------------|
| 2011                 | 2.83            |
| 2014                 | 2.8             |
| 2017                 | 2.79            |
| 2018                 | 2.82            |
| 2024                 | 2.78            |

|      |      |
|------|------|
| 2025 | 2.81 |
| 2036 | 2.75 |
| 2117 | 2.75 |
| 2124 | 2.78 |
| 2218 | 2.81 |
| 2219 | 2.84 |
| 2618 | 2.76 |

## 3000 Series Aluminum Alloys

Aluminum-manganese alloys with moderate strength and good formability

| Aluminum Alloy Grade | Density (g/cm <sup>3</sup> ) |
|----------------------|------------------------------|
| 3003                 | 2.73                         |
| 3004                 | 2.72                         |
| 3005                 | 2.73                         |
| 3105                 | 2.72                         |

## 4000 Series Aluminum Alloys

Aluminum-silicon alloys with low melting point for welding applications

| Aluminum Alloy Grade | Density (g/cm <sup>3</sup> ) |
|----------------------|------------------------------|
| 4032                 | 2.68                         |
| 4043                 | 2.69                         |
| 4045                 | 2.67                         |
| 4047                 | 2.66                         |
| 4145                 | 2.74                         |
| 4343                 | 2.68                         |
| 4643                 | 2.69                         |

## 5000 Series Aluminum Alloys

Aluminum-magnesium alloys with excellent corrosion resistance

| Aluminum Alloy Grade | Density (g/cm <sup>3</sup> ) |
|----------------------|------------------------------|
| 5005                 | 2.7                          |
| 5050                 | 2.69                         |
| 5052                 | 2.68                         |
| 5056                 | 2.64                         |
| 5083                 | 2.66                         |

|      |      |
|------|------|
| 5086 | 2.66 |
| 5154 | 2.66 |
| 5183 | 2.66 |
| 5252 | 2.66 |
| 5254 | 2.66 |
| 5356 | 2.64 |
| 5454 | 2.69 |
| 5456 | 2.66 |
| 5457 | 2.69 |
| 5554 | 2.69 |
| 5556 | 2.66 |
| 5652 | 2.67 |
| 5654 | 2.66 |
| 5657 | 2.69 |
| 5754 | 2.67 |

## 6000 Series Aluminum Alloys

Aluminum-magnesium-silicon alloys with good strength and extrudability

| Aluminum Alloy Grade | Density (g/cm <sup>3</sup> ) |
|----------------------|------------------------------|
| 6003                 | 2.7                          |
| 6005                 | 2.7                          |
| 6053                 | 2.69                         |
| 6060                 | 2.7                          |
| 6061                 | 2.7                          |
| 6063                 | 2.7                          |
| 6066                 | 2.72                         |
| 6070                 | 2.71                         |
| 6082                 | 2.71                         |
| 6101                 | 2.7                          |
| 6105                 | 2.69                         |
| 6151                 | 2.71                         |
| 6162                 | 2.7                          |
| 6201                 | 2.69                         |
| 6262                 | 2.72                         |
| 6351                 | 2.71                         |
| 6463                 | 2.69                         |
| 6951                 | 2.7                          |

## 7000 Series Aluminum Alloys

Aluminum-zinc alloys with highest strength among aluminum alloys

| Aluminum Alloy Grade | Density (g/cm <sup>3</sup> ) |
|----------------------|------------------------------|
| 7005                 | 2.78                         |
| 7008                 | 2.78                         |
| 7049                 | 2.84                         |
| 7050                 | 2.83                         |
| 7072                 | 2.72                         |
| 7075                 | 2.81                         |
| 7175                 | 2.8                          |
| 7178                 | 2.83                         |
| 7475                 | 2.81                         |

## 8000 Series Aluminum Alloys

Aluminum alloys with other elements as primary alloying additions

| Aluminum Alloy Grade | Density (g/cm <sup>3</sup> ) |
|----------------------|------------------------------|
| 8006                 | 2.71                         |
| 8011                 | 2.71                         |
| 8017                 | 2.71                         |
| 8030                 | 2.71                         |
| 8176                 | 2.71                         |
| 8177                 | 2.7                          |