

## Aluminum For Semi Tanker Trailer - Haomei Aluminium Plate Sheet

Haomei aluminum plate for trailer tanker hot-selling products is 5083,5182 and 5454 aluminum alloy, the tempera are O H32 and H111. Other aluminum alloy grades for trailer tanks are: 5754 aluminum sheet, 5059 aluminum sheet, 3003 aluminum sheet, thickness can be 0.1-600mm , width can be up to 2650mm , the specific can be customized according to customer needs.

Our Aluminum trailer tanker plate achieve world-class standards, widely used in the industry, by many enterprises unanimously approved.

### Specification of Aluminum for Semi Trailer:

| Product Type |                | Thickness (mm) | Width(mm) | Length(mm) |
|--------------|----------------|----------------|-----------|------------|
| Plate        | Wide Plate     | 4-8            | 2200-2600 | 2000-12000 |
|              | Standard Plate | 4-8            | 1500-2200 | 2000-12000 |
| Coil         | Wide Plate     | 4-8            | 2200-2600 | -          |
|              | Standard Plate | 4-8            | 1500-2200 | -          |

Remark: Typical width for tanker body and resistance plate: 1500/1600/1800/2000/2200/2400mm

Typical length: 5500/5750/6000/7500/7850/8600/11800mm

### Quality Control Points

| Part                             | Control Points                                          |                 |          |
|----------------------------------|---------------------------------------------------------|-----------------|----------|
| Barrel, head                     | Surface quality Mechanical Property Thickness tolerance | --              | Flatness |
| Wall partition, Resistance plate | Mechanical Property Thickness tolerance                 | Surface Quality | Flatness |

### Chemical Composition of Aluminum For Tanker Trailer:

| Alloy | Si   | Fe   | Cu   | Mn        | Mg      | Cr        | Zn   | Ti   | Standard |
|-------|------|------|------|-----------|---------|-----------|------|------|----------|
| 5083  | 0.40 | 0.40 | 0.10 | 0.40-1.0  | 4.0-4.9 | 0.05-0.25 | 0.25 | 0.15 | EN573    |
| 5182  | 0.20 | 0.35 | 0.15 | 0.20-0.50 | 4.0-5.0 | 0.10      | 0.25 | 0.10 |          |
| 5454  | 0.25 | 0.40 | 0.10 | 0.50-1.0  | 2.4-3.0 | 0.05-0.20 | 0.25 | 0.20 |          |

### Mechanical Properties of Aluminum Plate For Semi Trailer:

| Alloy | Temper | Yield Strength | Tensile Strength | Elongation | 180°Min. Bend Radius | Standard  |
|-------|--------|----------------|------------------|------------|----------------------|-----------|
| 5083  | O/H111 | ≥145           | 290-370          | ≥17        | 1.5t                 | EN14286   |
| 5083  | H32    | ≥215           | 305-385          | ≥12        | --                   | ASTM B209 |
| 5182  | O/H111 | ≥125           | 280-350          | ≥26        | t                    | EN14286   |
| 5454  | O/H111 | ≥85            | 215-285          | ≥19        | t                    | EN14286   |
| 5454  | H32    | ≥180           | 250-305          | ≥12        | --                   | ASTM B209 |

### Advantages of Aluminum Plate For Tanker Trailer:



1. Aluminum alloy semi-trailer tank truck has lighter dead weight and higher effective load.
2. The effective load is increased by reducing the weight of the vehicle body. Transporting the same amount of goods can reduce the number of shifts of the vehicle.
3. Aluminum alloy semi-trailer tank trucks have better fuel efficiency, reduce carbon dioxide emissions, and are more environmentally friendly.
4. Longer service life of aluminum alloy semi-trailer tank truck: strong corrosion resistance, 15-20 years is the typical service life of aluminum alloy semi-trailer tank truck.

### Application of Aluminum Sheet For Tanker Trailer:

- 1) Oil tanker
- 2) Fuel tanker
- 3) LNG storage tank
- 4) Semi Trailer

