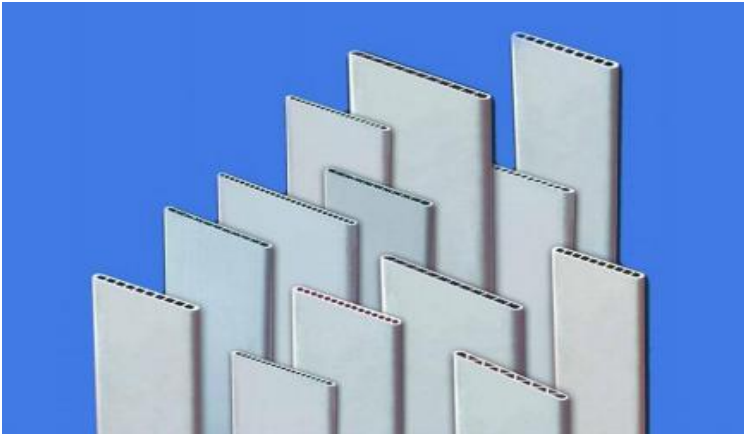


## Micro channel porous Aluminium Flat Tubes



Wanjia is a leading manufacturer for micro channel porous Aluminium Flat tubes with more than 9 years.

after years of accumulation, the group have formed a complete Aluminium alloy research and developments, production system, can meet different technical requirements.

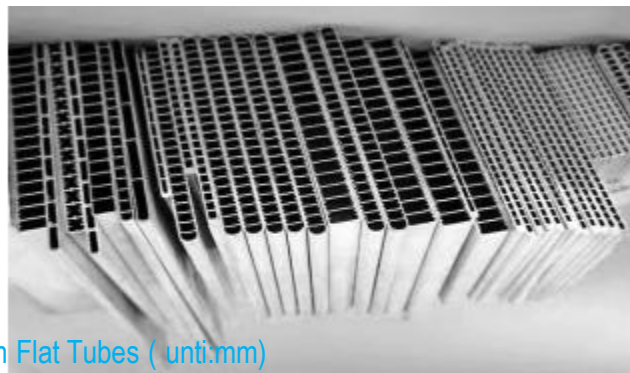
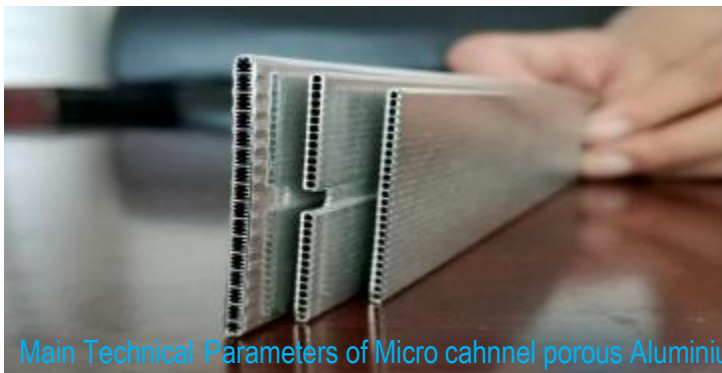
Currently, we produce and offer a full range of Aluminium porous channel flat tubes which are widely used in condensers and evaporators of heating elements in the field of home appliance, construction industry as well as automobiles.

The Aluminium micro channel tubes PME tubes( also called parallel flow aluminium flat tubes) is a kind of thin-walled porous flat tubes, which is

made of refined aluminium rod, hot extrusion, zinc spraying and anti-corrosion treatment. current annual capacities is about 1200mts

### Specification of Micro cahnnel porous Aluminium Flat Tubes ( unti:mm)

| Specification | length (mm) | thickness(mm) | number of holes | Unit Weight (kg/m) |
|---------------|-------------|---------------|-----------------|--------------------|
| 8.5x2-3       | 8.5         | 2             | 3               | 0.0173             |
| 12x1.4-12     | 12          | 1.4           | 12              | 0.0268             |
| 20x2-10       | 20          | 2             | 10              | 0.0523             |
| 16x1.3-16     | 16          | 1.3           | 16              | 0.0364             |
| 22x1-24       | 22          | 1             | 24              | 0.0363             |
| 25.4x2- 28    | 25.4        | 2             | 28              | 0.0707             |
| 36x2-26       | 36          | 2             | 26              | 0.1047             |
| 25.4x1.3-26   | 25.4        | 1.3           | 26              | 0.0573             |
| 36x2-29       | 36          | 2             | 29              | 0.1418             |
| 60x2.5-28     | 60          | 2.5           | 60              | 0.1427             |
| 16x1.3-19     | 16          | 1.3           | 19              | 0.0368             |
| 224x1.5- 11   | 22.4        | 1.5           | 11              | 0.0344             |
| 17x1.7-14     | 17          | 1.7           | 14              | 0.0486             |
| 12x 1.2-12    | 12          | 1.2           | 12              | 0.0291             |



Main Technical Parameters of Micro cahnnel porous Aluminium Flat Tubes ( unti:mm)

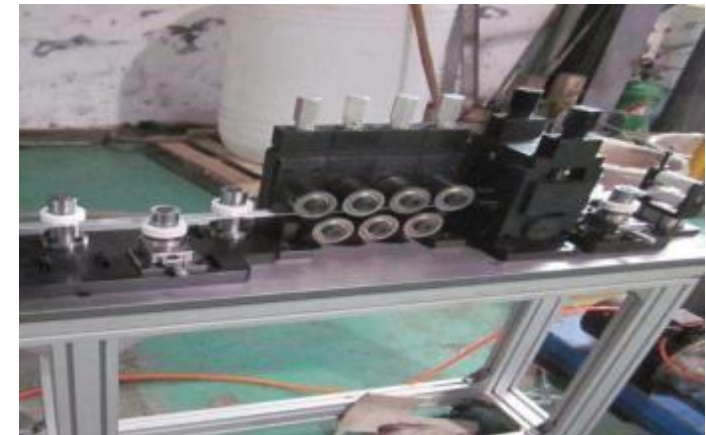
## Technical Parameters of Micro channel porous Aluminium Flat Tubes ( unit:mm)



|                         |                                       |             |
|-------------------------|---------------------------------------|-------------|
| Alloy                   | AA1100.1050.3102.3003                 |             |
| Temper                  | O, H12, H22, H14, H24, H18, H26, H112 |             |
| Porous                  | 3 - 39                                |             |
| surface                 | Mill finish or Zinc Spray layer       |             |
| width                   | 6 - 40mm ( +/-0.03mm)                 |             |
| height                  | 1.0 - 4.0mm (+/-0.02mm)               |             |
| Wall thickness          | 0.25 - 0.40mm ( +/-0.05mm)            |             |
| Rib thickness           | 0.20 - 0.35mm ( +/-0.05mm)            |             |
| Side end wall thickness | 0.35 - 0.55mm ( +/-0.05mm)            |             |
| End necking width       | For positioning                       | +/-0.03mm   |
|                         | Non positioning                       | +/-0.05mm   |
| End necking length      | For positioning                       | 3.0-7.0mm   |
|                         | Non positioning                       | 1.0 - 3.0mm |

## Mechanical Properties of Micro channel porous Aluminium Flat Tubes At room temperature

| Alloy | Temper | Tensile strength(Mpa) | Yield strength (Mpa) | Rp0.2 | Elongation at 50 mm (%) |
|-------|--------|-----------------------|----------------------|-------|-------------------------|
| 1050  | H112   | ≥60                   | ≥20                  |       | ≥23                     |
| 1100  |        | ≥75                   | ≥20                  |       | ≥20                     |
| 3102  |        | ≥75                   | ≥30                  |       | ≥22                     |
| 3003  |        | ≥95                   | ≥35                  |       | ≥20                     |



## Advantages of Aluminum Multi-channel Tube

- . Small cross-section
- . Big flatness ratio
- . Thin wall thickness
- . Strict qualifications
- . Customers' aluminum parallel-flow type condenser tube design is available
- . Galvanized/zinc aluminum air conditioner evaporator tubes are available
- . Mainly used in heat exchangers for light vehicle air conditioning systems
- . Suitable for condensers and evaporators
- . For the special demands of the clients, qualified samples could be offered within one month according to the requirement

## Application For Micro channel porous Aluminium Flat Tubes At room temperature

Home appliance refrigeration, freezer, vehicle refrigeration, base station cooling, industries refrigeration, specially applied in new energy power battery cooling systems, cooling modules for household appliance, As well as automotive air conditioners, civil air conditioners