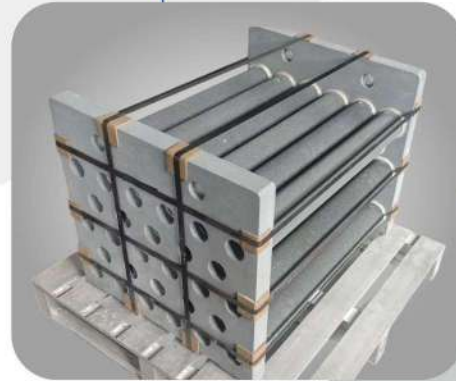




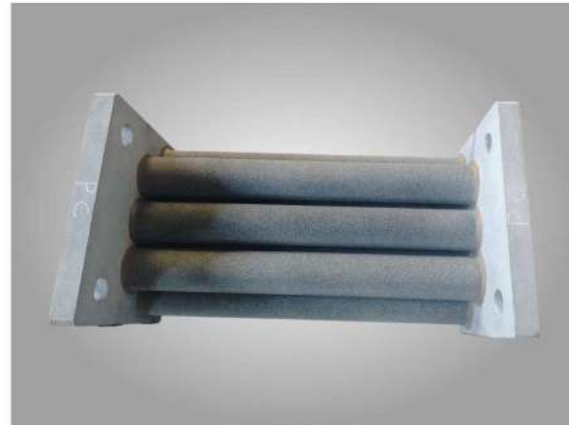
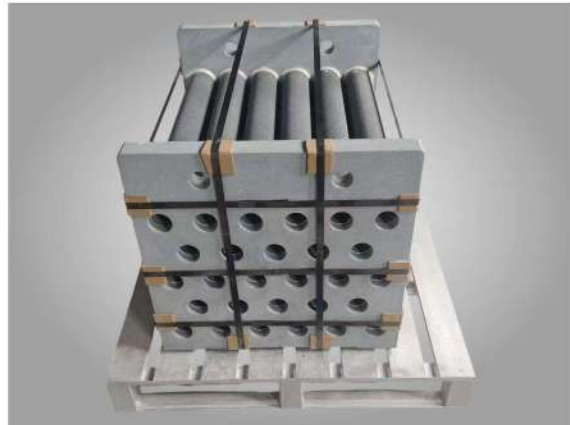
AdTech World Leader In The Metallurgical Materials

# Cartridge Filter



## I. Application Scope

Cartridge filters are suitable for filtering and purifying high-end aluminum alloys used in aerospace, battery foil, can end and stock, electronic alloys, etc. They are placed inside cartridge filter equipment and achieve efficient removal of micron-sized solid inclusions through a comprehensive filtration mechanism of surface filtration and internal adsorption.



## II. Technical Parameters of Cartridge Filters

### 1. Specifications and Models of Cartridge Filters

| Filtration Grade and Model |    |    |    |    | Number of Cartridge Filter Tubes |
|----------------------------|----|----|----|----|----------------------------------|
| FA                         | FB | FC | FD | FE | 07, 11, 14, 18, 22, 28           |

Note: FA, FB, FC, FD, FE represent filtration grades, and 07, 11, 14, 18, 22, 28 represent the number of cartridge filter tubes.

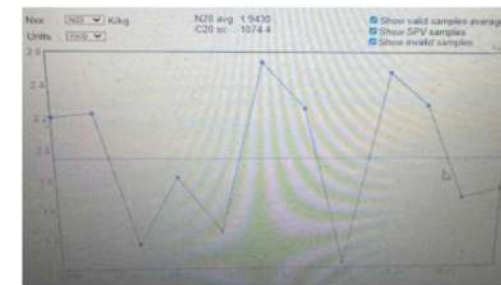
### 2. Flow Rate and Filtration Accuracy of Cartridge Filters

| Filtration Grade                      | FA      | FB     | FC    | FD      | FE   |
|---------------------------------------|---------|--------|-------|---------|------|
| Filtration Capacity (t/unit, typical) | 100-150 | 50-100 | 20-50 | 10-20   | 5-10 |
| Flow Rate (kg/h/unit, typical)        | 1200    | 1000   | 1000  | 500-700 | 400  |
| Filtration Impurity Size (μm)         | 100     | 50     | 30    | 10      | 5    |
| Filtration Efficiency (typical)       | 90%     | 92%    | 95%   | 98%     | 99%  |

## 3. Reference Table for Aluminum Melt Flow Rate

| Number of Cartridge filter tubes | Aluminum Melt Throughput/t |      |      |     |     |
|----------------------------------|----------------------------|------|------|-----|-----|
|                                  | FA                         | FB   | FC   | FD  | FE  |
| 7                                | 1200                       | 700  | 400  | 125 | 70  |
| 11                               | 1800                       | 1100 | 600  | 200 | 110 |
| 14                               | 2300                       | 1400 | 700  | 250 | 140 |
| 18                               | 3000                       | 1800 | 900  | 325 | 180 |
| 22                               | 3600                       | 2200 | 1100 | 400 | 220 |
| 28                               | 4600                       | 2800 | 1600 | 550 | 280 |

## III. On-site Usage Data



| Alloy Grades | Adtech     | Imported Competitors |
|--------------|------------|----------------------|
| 5052 (N20)   | 1.9k/kg-Al | 0.5-3k/kg-Al         |
| 3104 (N20)   | 1.0k/kg-Al | 0.5-3k/kg-Al         |

The N20 has a filtration accuracy of 1-2K/kg-Al, which is consistent with the filtration accuracy of competing imported cartridge filters of the same level.

## IV. On-site Application Cases



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