# Carbon Fiber Felt
# KRECA FELT

## About the Product

- KRECA FELT is felt-formed non-woven fabrics with low density.
  They are formed by needle-punching carbon fibers.
- We have three types of KRECA FELT available; KRECA FELT C, KRECA FELT G, and KRECA FELT X.

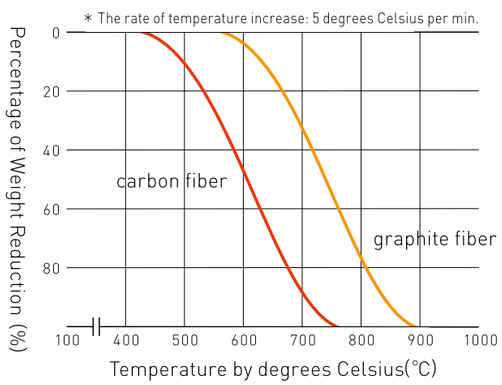
KRECA FELT C and G

KRECA FELT X

## Main Usages or Applications

- Insulation for devices of metalizing film by Aluminum vapor deposition, or insulation for furnaces in which the temperature is higher than 1,000 degrees Celsius
- Also used as protections in high-temperature workplaces and in workplaces which use corrosive chemicals

### Weight Reduction by Oxidation






## Features

- Featuring high-purity properties, KRECA FELT can prevent contamination.
- KRECA FELT is flexible, which enables it to be easily applied as cushions or insertions.
- High uniformity in thickness provides customers with high handling ability and stable quality.

## Installation Advantages

- Featuring high-purity properties, KRECA FELT can prevent manufactured goods from contamination, thus contributing to high-quality production of the goods.
- Felt can be used for manufacturing silicon ingots.
- Felt can be used for light maintenance.

## Specifications of KRECA FELT

### Types and Grades

〈ex.〉 **F - 2 05 X** [Graphite grade / Typical mass of 500g/m² / KRECA FELT X]
A B C

A Purity and Thermal Classification
- 1: Carbon Grade
- 2: Graphite Grade

B Typical Mass (unit: g/m²)
- 05: 500
- 07: 700
- 10: 1000

C Classification by Process
- none: KRECA FELT C or KRECA FELT G
- X : KRECA FELT X

### Typical Physical Properties and Characteristics of KRECA FELT

measuring method: Kureha standard test method

| | | | KRECA FELT C | | KRECA FELT G | | KRECA FELT X | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | F-105 | F-110 | F-205 | F-210 | F-205X | F-207X | F-210X |
| Typical Mass | | g/m² | 500 | 1000 | 500 | 1000 | 500 | 700 | 1000 |
| Typical Thickness | | mm | 8 | 16 | 8 | 16 | 5 | 7 | 10 |
| Min. Carbon Content | | wt % | ＞95 | | ＞99 | | ＞99 | | |
| Ash | Standard Type | ppm | ＜200 | | ＜200 | | ＜200 | | |
| Electrical Resistivity | | Ω·m | $10\sim15\times10^{-3}$ | | $4\sim5\times10^{-3}$ | | $10\sim15\times10^{-3}$ | | |
| Average Thermal Conductivity* | in Vac. | W/m/K | 0.27 | | 0.27 | | 0.30 | | |
| | in $N_2$ | | 0.46 | | 0.46 | | 0.50 | | |

＊ At 1,000 degrees Celsius, test pieces with 50mm thickness

### Packaging

| | Grades of the Products | Packaging Unit | Packaging | Dimensions of Packing by mm |
|---|---|---|---|---|
| KRECA FELT C | F-105, F-110 | 1000mm×5m per Roll | Rolled on paper tube, polyethylene wrapped, and packed in cardboard boxes. | 1100W×350L×350H |
| KRECA FELT G | F-205, F-210 | | | |
| KRECA FELT X | F-205X, F-207X F-210X | 1200mm×5m per Roll | | 1320W×350L×350H |