

Competence in Roofing Tile

Imerys Ceramics is a world leader in manufacturing kiln cars, H and U-type firing supports applied in traditional tunnel or intermittent kilns, usually on kiln cars. Ceramic supports have played a key role in the industrialization of roof tiles manufacturing.

Our ceramic kiln furniture allows:

- a **high degree of automation** of the roof tiles handling;
- a **very good dimensional (size, flatness) reproducibility** of the roof tiles, thanks to a very high accuracy and stability in the dimensions of our supports;
- a **very long life-time of our supports** (up to 3000 cycles depending on operating conditions), based upon a strong resistance to mechanical and thermal constraints. The mastering of the body composition of our supports is key to achieve this.

Each solution can be tailored to your needs thanks to our state-of-the-art design office.

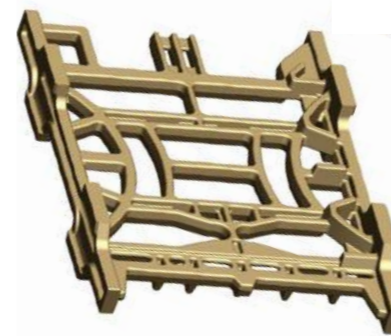
OUR SOLUTIONS



U-CASSETTE

Characteristics

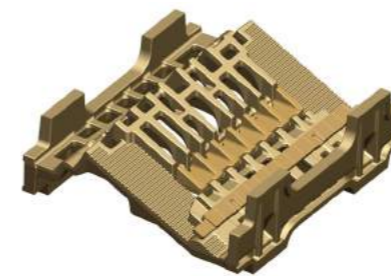
- Upright firing of roof tiles
- Automated handling process of tiles
- Firing temperature up to 1150°C
- Firing cycle between 25 and 50h
- Homogeneous firing of tiles



H-CASSETTE

Characteristics

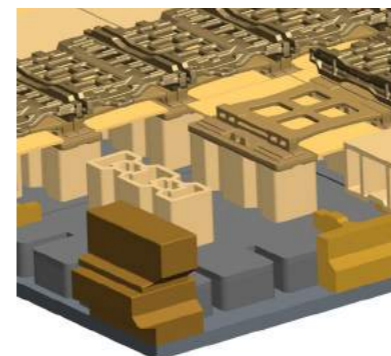
- Flat firing of roof tiles
- Automated handling process of tiles
- Firing temperature up to 1150°C with shorter cycle times (10-12h)
- Homogeneous firing of tiles thanks to the sharp control of the air flow
- Very good flatness of tiles
- Allows all kind of surface treatment: powder/ glaze/ engobes



H-CASSETTE FOR ACCESSORIES

Characteristics

Same characteristics as H cassettes, but customized for your accessories. Tailored design, with (or without) cordierite inserts or silicium carbide, ensure a high versatility of your cassettes. Exclusive systems of SiC pads can also be cast in your H for optimum handling and maintenance.



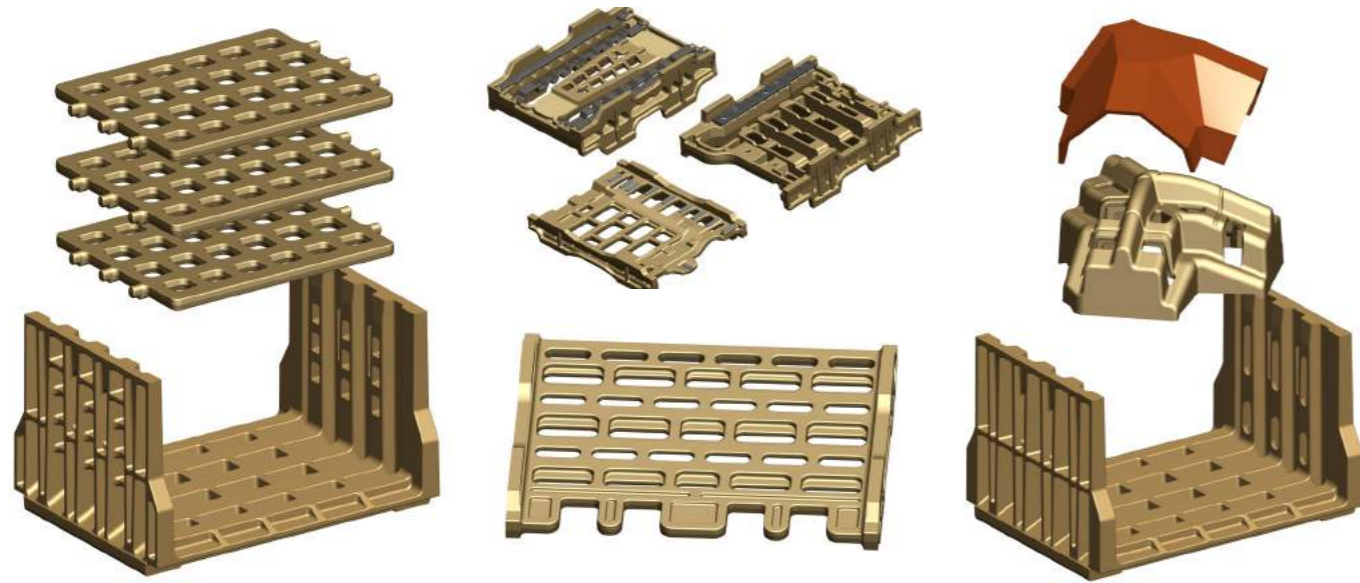
KILN CAR REFRACTORIES

Characteristics

Full set of refractories for your kiln cars to stand heavy loads, ensure a very long life-time and a very good thermal insulation.

Imerys Ceramics considers that the body composition is a key success factor to obtain high quality products that will be able to face the most challenging operating conditions. For these reasons, we have developed a wide range of optimized compositions based on:

- a **very strict selection of our raw materials** ensuring a very high performance stability of our bodies. Being part of the **Imerys** group, a worldwide leader in industrial minerals, enables us to choose and secure the best raw materials for our bodies;
- **over 30 years of technical collaborations** with our customers on a wide range of applications and operating conditions.



ADEQUATE COMPOSITIONS FOR ROOFING TILE

CORDIERITE is a major component of Cordierite-Mullite kiln furniture. Cordierite has an extremely low coefficient of thermal expansion explaining the outstanding thermal shock resistance of these kiln furniture materials. **Imerys Ceramics kiln furniture** developed light weight cordierite formulations that allows energy savings without deteriorating the other parameter of the cordierite.

The controlled combination of Mullite, as a high temperature resistant mineral and Cordierite, enables tailoring material characteristics for a wide variety of firing profiles and application temperatures.

To ensure that these compositions will always offer the optimum performance, all important process parameters are constantly monitored and the finished products have to pass extensive control procedures under application of the highest quality standards with perfect traceability and reproducibility. All **Imerys Ceramics kiln furniture** units are ISO 9001 certified.

Characteristics

These materials tailored for the application in roof tiles, offer:

- high thermal shock resistance
- high resistance to abrasion
- maximum application temperature of the material: 1300°C (no shaped product)

Typical products: H and U Cassette

Materials

APTAKORIT ZSA2
GREENLITE
SC90G
SC90S

Teams dedicated to roofing tile manufacturing

Thanks to a global commercial structure and integrated logistics network, **Imerys Ceramics** is able to provide a high quality, cost-effective and reliable service to its customers, wherever they are in the world.

Serving customers worldwide



▲ Commercial office

▲ Design office



www.imerys-ceramics.com