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.
**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.

**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.

**ADEQUATE COMPOSITIONS FOR ROOFING TILE**

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**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 Z5A2
- GREENLITE
- SC90G
- SC90S

*NOTE: This document is a marketing material provided by Imerys Ceramics, a company specializing in industrial minerals. The information is intended for educational and informational purposes only. For further details, please visit www.imerys-ceramics.com.*

**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.