

# Keeling & Walker

## Company Overview

**Industry:** Chemicals and Manufacturing

**Location:** Stoke-on-Trent, UK

**Jobs:** 38 in the Hydrogen Valley region

Keeling & Walker are best known as the foremost supplier of tin oxide. Together with their sister company Thermox Performance Materials Limited, more than 40 grades of tin oxide are available to customers worldwide in both traditional ceramics and advanced technology applications.

The majority of the material that Keeling & Walker produces is used in ceramics applications, glass melting electrode production and glass refining. Other specialised applications include use in electrical contacts and friction linings.

The company also manufactures tin oxide-based materials, such as antimony tin oxide, which is used in novel applications such as antistatic and static-dissipative coatings, electrical and electronic components, catalysis and gas detection. Other non-tin-based products that Keeling & Walker produces include materials developed for use as infra-red modifying applications such as cesium tungsten oxide and indium tin oxide.

## How hydrogen will help to decarbonise Keeling & Walker

Keeling & Walker have over 100 years of manufacturing, research and development expertise under their belt. Their expertise in the tin oxide sector is world leading, and the company is now seeking to build upon their in-depth understanding of their customers' needs by decarbonising their manufacturing processes.

Keeling & Walker have an active interest in the Hydrogen Valley project as they seek sustainable alternatives to carbon-intensive energy sources to ensure the company can continue to grow and expand its range of products. They are hoping to grow their business sustainably across a range of markets and applications.

Hydrogen provides some key benefits versus other technologies to accelerate Keeling & Walker's decarbonisation pathway. Hydrogen could potentially afford greater flexibility for replacement of existing technology that the company uses on site. Processes that currently rely on a gas / combustion base process could benefit from the option to retain that type of technology and hopefully ensure that the technical properties of products can be maintained.

The company has maintained that they would be interested in participating in any hydrogen field trials in the future, to test the benefits of the technology on a commercial scale.