

## **Nalon: an industrial partner in the spanish security and defense field**

**Juan José Fernández**

Industrial Química del Nalón, S.A.

Industrial Química del Nalón, S.A.(NalonChem) is an independent and private family own company founded in 1943, whose activity is focused on the carbo-chemical sector. In the past decade started to develop new activities and nowadays is producing advanced carbon materials and nanoparticles .

One of the main developments in carbon materials has been obtaining precursors for the manufacture of graphene from coal liquids (European Project RFCS). The resultant graphene has been tested for energy and biomedical applications. Current activities are focused in the development of sustainable and scalable graphene manufacturing technologies for industrial large scale implementation.

At NalónChem, an innovative, versatile and environmentally friendly technique is being developed to produce high performance nanomaterials in the form of nanosized metals, metal oxides or mixed metal oxides. Its bottom-up technology enables fast continuous production of fully crystalline nanoparticles in the form of colloidal dispersions, with narrow size distributions and precise stoichiometries.

Moreover, this technology allows an outstanding level of product control (composition, particle size, size distribution and morphology), as well as flexibility to perform in-situ surface modifications, thus providing dispersion stability and compatibility between the solvent and the formulated final product.

At NalónChem we understand that since every application demands specific product characteristics and properties, a “tailor-made” material needs to be optimized and customized, so all of our customer needs are met and provided added value is maximized accordingly. We are willing to work closely with our customers to help them incorporate nanotechnology into their products with success