

**ALKOMPOSIT K**  
 The new shim by Jicey  
**SALON DE L'AERONAUTIQUE**  
 A look back at the Paris  
 Airshow



**EUROCOPTER**  
 Excellence in aeronautics  
**THE HOUDAN FACTORY**  
 Made to Measure

**JICEY**

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**JICEY NEWS13**

November 2011

EDITORIAL

2011 is coming to an end – an opportunity to assess this year, which was once more a difficult one for the trade and the industrial sector in general, in France as in the rest of Europe. Nevertheless, in this ongoing gloomy situation, Jicey was able to make the best of things and achieve a strong increase in turnover compared with 2010 (+30%). Since 2008, Jicey has been demonstrating its resilience, thanks to the support of its clients, and also by succeeding in attracting new and prestigious clients, and by continuing to innovate (launching a new product, modernising and rationalising its plant).

Having taken the gamble in 2007 of investing in an environment that was favourable to development, Jicey now stands out due to its enhanced ability to meet the demands of the market, and in particular those of the aeronautics sector, which continues to display its healthy state with a record order book.

The issue in 2012 will be to seek growth wherever it may be found, and Jicey is more than ever prepared to meet this target.

0,08%

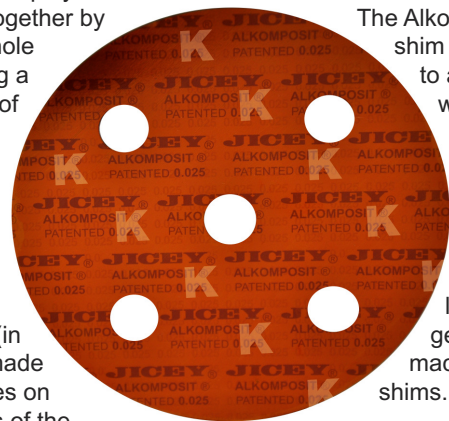
That's the number of instances of non-compliance detected by our clients over the year 2011.

It is our ongoing quest to achieve continuous improvement in the quality of our products and services. The search for quality at all levels is a constant preoccupation that becomes more demanding with each passing year. Today, this is manifested in a record low in terms of non-compliance.

JICEY launches Alkomposit K

The Alkomposit K (for Kapton\*) laminated peelable shim is an adjustment shim made of a very high-performance composite material. It consists of a stack of basic polyimide layers (Kapton), joined together by adhesive across their whole surface, and thus forming a complete laminated unit of compact appearance. Each basic component layer may easily and safely be peeled off by hand in order to obtain the exact thickness required. When it is bi-composed (in other words, when it is made up of different thicknesses on each face), the thickness of the layers may swiftly be found, thanks to the patented Viewtek process that makes it possible to read the layer thickness on the shim due to its transparency. The shim is then easily and

accurately adjusted to precisely fill the space between components within mechanical assemblies.



The Alkomposit K laminated peelable shim makes it possible to respond to all sorts of new applications where it is important to introduce concepts of insulation and lightness over a very wide range of temperatures (from -269°C to +400°C).

Alkomposit K laminated peelable shims can be advantageously be used to replace machined or ground solid metal shims.

\* Kapton is a Dupont de Nemours trademark



0,001

This, in millimetres, is the negligible layer of adhesive applied to each layer of a laminated peelable shim during its manufacture - less than one micron. Subsequently, this layer of adhesive disappears almost totally during polymerisation of the material. Thus, in the end, the thickness of a laminated peelable shim is the strict sum of the layers that go to make it up.

JICEY, a look back at the 49th Bourget Airshow



Last June, the 49th International Air Show was held at Le Bourget airport, and was by all accounts a great success, in particular leading to record orders for the Airbus.

Many of you visited us back in June on our stand, which for the occasion sported a magnificent visual display of the Rafale – thank you for coming. For us, it was also the occasion of the official launch of our patented new product, Alkomposit K, and an opportunity to meet our numerous clients in the aeronautics sector.

EUROCOPTER excellence in aeronautics

Eurocopter was set up in 1992 through the merger of the helicopter divisions of Aérospatiale of France and the German Daimler Chrysler Aerospace AG (DASA).

The Eurocopter group has the world's largest range of civil and military helicopters. Today, the Group's products represent 33% of the world's fleet of helicopters. One of the keys to the success of Eurocopter is the extent of its range, which allows each user, civil or military, to choose the machine most suited to their requirements. The range of civil helicopters extends from the famous Colibri to the Superpuma, via the Ecureuil, EC 135 / 145, and Dauphin models. The military range includes the Fennec, EC 635 / 645, Panther, Cougar and NH90 models, among others.

In 2010, Eurocopter undertook the renewal of its range, presenting a new 'bird' with a highly distinctive look, dubbed the X<sup>3</sup>. The X<sup>3</sup> demonstrator is powered by a five-blade main rotor system and two propellers on shortspan fixed wings – a combination that delivers excellent vertical takeoff and landing capabilities of a helicopter, along with aircraft-type fast cruise speeds and maneuverability.

Eurocopter anticipates a wide range of utilizations for the X<sup>3</sup> hybrid helicopter concept, including long-distance search and rescue (SAR) missions, coast guard duties, border patrol missions, passenger transport, offshore operations and inter-city shuttle services

Eurocopter's X<sup>3</sup> hybrid helicopter demonstrator has delivered on the promise of pushing the frontiers in rotary-wing aviation by surpassing its original speed target of 220 kts. The X<sup>3</sup>'s speed milestone was reached on May 12 during stable, level flight – with the hybrid demonstrator maintaining a true airspeed of 232 kts. (430 km/h) for



Photo : Patrick Penna / Eurocopter

several minutes.

Jicey is proud to have been chosen by Eurocopter to become one of its official suppliers of adjustment shims used in the fitting of certain mechanical assemblies in their civil and military helicopters.



78%

That's the percentage of clients who are 'very satisfied' or 'satisfied' with Jicey's overall service (products and services) according to our latest survey, carried out last September, using a panel representing our entire client base. This figure is our reward for all the efforts made towards ongoing improvements across all the parameters taken into account in your perception of our company's performance.

Client satisfaction survey 2011 carried out using a panel of 50 clients



HOUDAN, the factory is modernising

Investment in new tooling (presses, furnaces, lathes), allowed us to carry out an in-depth modernisation of our company.

Jicey, a pioneer in the manufacture of adjustment shims and airtight joints since 1946, has always known how to innovate and modernise. It is no accident that we have been European market leaders in this field for more than 60 years. And this is all the more true in this critical period, where investment remains a necessity for better, faster production.

In 2007, Jicey relocated to a made-to-measure factory in Houdan. A total surface area six times greater than that of our old site, plus in-

vestment in new tooling (presses, furnaces, lathes), allowed us to carry out an in-depth modernisation of our company. Today, we are on the point of completing a second phase of improvement and rationalisation of the production line. The construction of a 300m<sup>2</sup> mezzanine means we are able to rationalise the production process even further and also accommodate our subsidiary Atec (carrying out all the conventional machining) within the same building as Jicey. Jicey is also pursuing its policy of renewing its stock of machines by systematically replacing the oldest models and modernising the others (automatic feed systems, etc.)

En bref



Since last June, our website has undergone a complete makeover,

reflecting the modern image of our company - greater clarity and completeness, while still incorporating a secure dedicated client interface that allows you a real-time view of your orders and an update on production.