



**Research packs: The lab buddy!**

Laboratories constantly have pressure put on them to come up with ways and means of producing suitable solutions to the needs of the sales and marketing departments. Each component has to be determined so that the final product ticks all the necessary boxes. This can result in the need to consult many suppliers and evaluate a huge selection of products.

To help cut down on the work effort in this regard, Protective Technology are offering to provide Lab Kits or Research Packs, which contain a selection of options in each category. This will enable lab staff to work with the kit in order to quickly establish suitable components for a given formulation.

The first of these kits will be the THICKENER PACK. The pack will contain a selection of products from across the Protective range of thickening agents and will also include a categorization of the thickening efficiency, chemical type and rheology profile on the label.

The packs are currently being put together and should be available by next month. Customers will be reminded in face to face meetings as and when these happen and the packs are going to be available to everybody on request.

In future, we intend to put together several more packs in different categories, depending on the success of the THICKENER PACK.

**And just in...**

ADDAPT Chemicals BV, our additives supplier in Holland, have launched their new look website. Take a look at [www.addapt-chem.com](http://www.addapt-chem.com) where there are new brochures, more detailed product info and a very easy to navigate site.

**Chemical engineers everywhere, pay attention ...**

It is not uncommon to see chemical engineers involved in hobbies which are an extension of chemical engineering. Brewing, wine-making and of course, cooking. Poor in some ingredients, mix them up and then apply a little heat and pressure!! So for those of you with a leaning to experimenting in such a way, here's a treat; Stephen has kindly let us into one of his gastronomic secrets and provided a recipe' for his Portugese Custard Tarts (Pestel de Belem!).

**Ingredients:**

- 1 cup milk
- ¼ cup cream
- 5 egg yolks
- 3 tbs sugar
- pinch of salt
- 2 tbs plain flour
- 2 strips lemon peel
- 1 vanilla pod – split – deseeded
- 1 cinnamon stick
- 500g ready to use puff pastry sheets
- cinnamon
- icing sugar.

1. Pre-heat oven to 150degC.
2. In a large bowl, whisk milk, cream, egg yolks, sugar and salt. Carefully whisk in the flour to avoid lumps. When the batter is smooth, add the lemon peel, vanilla bean and the cinnamon stick.
3. Transfer the batter to a saucepan and use a whisk to stir constantly over low heat. It is important to heat the milk slowly to ensure that the egg yolks do not "scramble".
4. Continue to stir until the mixture resembles thick custard. Beware of the mixture around the edges of the pot; try to maintain a smooth consistency.
5. Allow to cool, then gently spoon off the milk skin from the top. Remove lemon peel, cinnamon stick and vanilla bean.
6. Lightly grease the muffin tray with butter. Cut out the puff pastry into circles and mould into to fit into the muffin cups. Extend the dough over the lips of the cups slightly.
7. Spoon in the custard mix until three quarter full – leaving about 1 cm showing.
8. Place tray in the oven and bake for approx. 15mins or until pastry turns golden brown. Note: depending on oven, the tops can burn before the dough is cooked through (cover with aluminum foil to help avoid this).
9. Set side to cool and garnish with a sprinkle of cinnamon and icing sugar.
10. Eat and enjoy with a hot espresso coffee!

**Profile; Recent visit by Luc Carlier from CTF2000, Belgium**

Luc Carlier, MD of CTF2000, made his third visit to Australia in 9 months to continue the momentum of the various development projects that are underway.

CTF2000 are proving to provide competitive and extremely effective flame retardant solutions. Halogenated and non-halogenated products are available with products suitable to meet all International requirements.

Besides the flame retardant products, CTF2000 also offer ready to use coating compounds for textiles; mattresses, upholstery, curtains and blinds, carpets and rugs, non-woven, technical textiles and apparel fabrics.

Successful production trials have been conducted and commercialisation is now well underway. A further visit by Luc later 2013 to conduct another wave of production trials is planned.

Product quality, reliability, technical and R and D support are key aspects of the CTF2000 organisation. With ISO9001 and ISO14001 CTF2000 are a proven quality-focused company. The signs are showing that CTF2000 will fast become an integral flame retardant supplier to Australian manufacturers.



For all information and enquiries relating to the above please contact:

Andrew on 0411332247 or [andrew@protective.com.au](mailto:andrew@protective.com.au)  
 Stephen on 0411332267 or [stephen@protective.com.au](mailto:stephen@protective.com.au)