

WHY OGTHERM?

The major jobs are made using glass-wool and sometime rock-wool covered by aluminium or PVC. The problems of these insulations – see photos hereunder - are very easy to be understood.



- Air lamination inside the protection, because the same are not airtight, generates a transformation of the wool in powder, in fact after some years (1, 2 max 3 for the top level products) the shell will be almost empty.
- The glass-wool powder generates cancer when inhaled
- For maintenance, you are obliged to break the shell
- Time for installation is long
- It suffers water, humidity, and rain if the closures are not well done.
- It has very limited insulation properties

For all the above reasons, and even others, the market wants products that, even if more expensive, avoid all the above problems. For this reason, some specific companies have put in production thermal protections that are similar to Jackets, easy to install, not heavy, removable and long lasting.

After this some companies use qualified AND CERTIFIED PRODUCTS AND OTHERS NO! But this is a normal story that you may find everywhere, different is for the fire passive protections where you have to submit certificates, and test and guarantee of the materials used but even in this case few companies play around giving something not in conformity.

Another point is the closing system, the market offers several systems and when customers receive offer, they have to check the closing system proposed for the proper evaluation along with the characteristics of the materials inside including even the specific weight.



Of course, another important aspect to evaluate is of how the suppliers give the installation instructions and the components identification.

We provide always a 3-D exploded drawing where all the components are identified with the proper installation sequence.

Among the system we normally supply we have also one, similar to the competitors that is cheaper but require more attention and time for the installation.

AND NOW WE ENTER IN THE MATERIALS CHARACTERISTICS

The other reasons that have convinced the customers to use these new technological products are then:

- Lower coefficient of conductivity "K"
- Lower thickness for higher performances

And of course, in contraposition with above listed:

- Lower weight
- Easy installation, EASY DISASSEMBLING AND EASY REASSEMBLING
- No necessity of supports
- Long lasting

MATERIALS INSIDE:

The materials that we use inside the protections are totally different from the traditional products used for thermal protection and customers must consider that for certain plant lower are the temperature losses higher are the performances of their equipment, as example the turbine.

We use for these purposes:

- Neddle mat made with "Si" fibres
- Bilcogel fibre for application up to -100°C of ambient temperature
- Ceramics fibres bio soluble

All these types of fibres are healthy products far away from the problem of cancer that are generated by other products; never **THESE MATERIALS LOOSE FIBRES OR BECAME POWDER** and are certified. For matching prices we will never change our production standard.



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EXTERNAL MATERIALS AND COATINGS

The external materials that are used for the jackets are selected in accordance to different parameters as:

- Ambient temperature
- Ambient condition-corrosive atmosphere?-Chemical presence?-toxic product presence?
- Product temperature
- External required maximum temperature over the external coating.

Based on what above the internal materials, in contact with the component to be protected may be:

- Silicon fabric (max acceptable contact temperature +1.000°C)
- Calcium silicate fabric (max acceptable contact temperature +700°C)

INTERNAL MATERIALS AND COATINGS

All these under listed materials that are normally used by our company are:

- UV stabilized
- Waterproof
- Not shrinkable even after long time in operation
- Acid resistant
- Artificially aged
- Vapour proof
- No toxic
- Chemical resistant

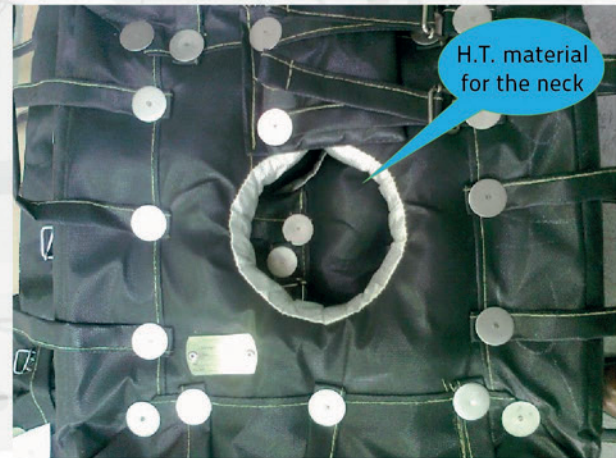
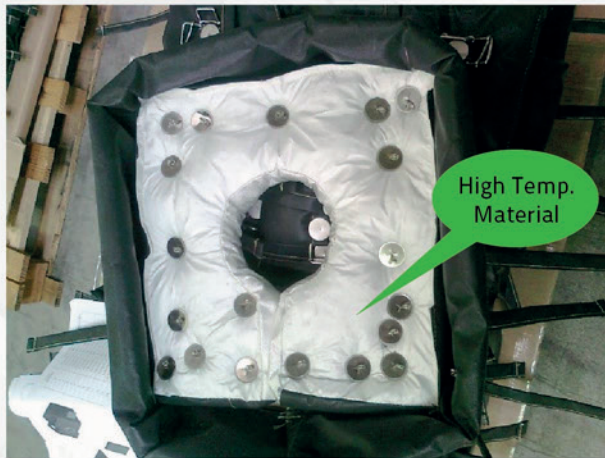
And for particular ambient condition special coatings are applied on the materials.

Mainly the materials used by us for the external protections are:

- PTFE fabric resistant to all the acid alcoholic elements etc. Maximum operating temperature +270°C
- Silicon glass fibre over coated. Maximum operating temperature +150°C
- PVC. Maximum operating temperature +70°C

We have even other special applications determined by specific customers request and needs, in fact we may produce:

- **OGflex** – is our classical OGFlex® fire protection that has internally even a layer of thermal insulation separated from the ceramic fibre.
- **OGFlexHT** – is the traditional OGFlex but the internal covering sheet is made of material that resist to high temperature



We really hope to have been capable to detail you all what is possible concerning the OGTherm remembering you that where OGTherm are needed even the other materials like expansion joints etc. There're a lot of competitors for these protections but for our P.F.P. is the best certified solution.

All of us appreciate your effort and we are sure that it will give good results very soon.



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