

Official edition  
Of the Union of Composites Manufacturers  
With the assistance of the magazine  
«Composite World»

# Industry Newsletter

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# Composite Materials



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**UNION OF COMPOSITES  
MANUFACTURERS**

## 1. THE UNION ACTIVITY

### The action plan (“road map”) “Development of the industry of composite materials production” have been approved

The action plan (the “road map”) “Development of the industry of the production of composite materials” has been approved by the Decree of the Government of the Russian Federation № 1307-r as of 24<sup>th</sup> of July, 2013.

The document has been developed by the Ministry of Industry and Trade of Russia together with the Union of Composite Manufacturers, FSUE “VIAM” and other interested industry organizations.

The action plan (the “road map”) “Development of the industry of the production of composite materials” represents the complex of the events for modernization of the mechanisms of composite materials and products from them.

The basic milestones of the realization of the events are established in the subprogram «Development of the production of composite materials (composites) and products from them» of the state program of the Russian Federation «Development of the industry and increasing its competitiveness».

The realization of the indicated events will allow to achieve the target values established by the “road map” (for 2016 and 2020 years) reflecting among them the volumes of the production, consumption, export of the composite materials and products from them as well to form the normative base required for the industry development.

The key target of the of the development of the composite materials production is the mass market of the products that will be able to provide the money flows required for launching the investment projects and further development.

The realizing measures of the government support in the frames of the “road map” should create the necessary conditions for formation and development of the modern industry of composite materials being able to compete on the domestic and world markets.

The list of the target values established by the “road map” stipulates the achievement of the following indexes to 2020:

- The volume of the domestic production of the composite materials and products from them – 120 billion Rubles;
- The volume of the products manufacturing per capita – 1.5 kg/year;
- The export share – 10 %.

Besides it to 2020 there are stipulated the development and adoption of more than 553 normative and technical, normative legal and the other documents for industry development, eight industry programs for application of composite materials in the related sectors of the economy, and 20 regional programs.

[www.minpromtorg.gov.ru](http://www.minpromtorg.gov.ru)

## 2. INDUSTRY NEWS

### The factory for the production of the parts for “KAPO-Kompozit” aircrafts has been opened in Kazan

The factory for the production of the composite parts for the aviation industry of “KAPO-Kompozit” has been opened in Kazan that will produce the wing elements for the Russian and foreign aircrafts. The enterprise is going to produce hundreds of the assemblies for Sukhoi SuperJet-100 (SSJ), MS-21, TU-214, Boeing and Airbus to 2020.



“KAPO-Kompozit” became the first factory opened in the frames of the program of OJSC “United Aircraft Corporation” for the construction of competence centers. The program stipulates opening of new productions of the spare parts in Ulyanovsk, Voronezh, and the center of aircraft designing in Zhukovskiy located near Moscow. “We create one of the most highly technological productions of the parts from composite materials in Kazan”, - the President of UAC, Mikhail Pogosyan, noted today on the ceremony of the factory opening.



«The application of carbon fiber in the production of the aircrafts gives two advantages, the first is weight saving and therefore thirty five percent economy on fuel, the second is practically not limited service life of composite structures because they are not subject to corrosion», - the President of Austrian Company FACC AG Walter Schtefan informed. «KAPO-Kompozit» will use the French raw materials but in future it has plans to transfer to the Russian – the first test pieces of carbon fiber have been already produced by the State Corporation “Rosnano”.



To the end of the year the enterprise will work out the production technology of the elements of wing-flap system and tails from polymer composite materials. «KAPO-Kompozit» will perform the tests of the products and produce only two pilot sets – by two wings for TU-214. In 2014 "KAPO-Kompozit" will begin to produce the first 20 serial sets for SSJ-100, 6 sets for MS-21 and 2 sets for TU-214.

Among this it is planned to produce the parts for Boeing-777, Boeing-787 and Airbus 380 on the base of the enterprise. The Austrian Company FACC AG – the aviation and space subdivision of Fischer Composit will be their customer. From 2020 the enterprise expects to produce up to 60 sets for SSJ-100 and MS-21 and more than 200 sets for FACC.

Today Mikhail Pogosyan and the President of FACC AG Walter Schtefan signed the agreement of intent according to which the Austrian partners will acquire a share in the capital of CJSC “KAPO-Kompozit” in 2014 with the share 24%. Today 100% of the enterprise shares belong to the CJSC “Aerocomposit”.

New production enabled to create 200 work positions, up to the end of the year OJSC “KAPO-Kompozit” will attract more 150 employees. To the present moment the invest-

ments to the project constitutes 3.5 billion Rubles. The company’s revenue in 2015 is estimated at 14 billion Dollars; up to 2020 according to the plans of the investors it will grow up to 87.3 million Dollars.

*rt.rbc.ru*

### «POLIEF» signed the memorandum of deliveries of terephthalic acid to Kazakhstan



"POLIEF" and the Science and Production Company "Kompozit" signed the memorandum of deliveries of raw materials for the production of polyester resins and composite materials.

In the context of the visit of the official delegation and business – mission of Pavlodar oblast of the Republic of Kazakhstan to Ufa “POLIEF” and the Science and Production Company “Kompozit” (Kazakhstan) conducted the memorandum of deliveries of terephthalic acid.

According to the memorandum the parties consider the possibility of terephthalic acid deliveries in the volume more than 1000 tons in 2015-2017 for the planned production of polyester resins and composite materials of the Science and Production Company "Kompozit" in Pavlodar city.



The polyester resins are used at the production of composite materials applied in the electro and radio techniques, in the auto-, ship- and aviation constructions, the decorative products and artificial stone.

[www.sibur.ru](http://www.sibur.ru)

### "RT-Chemcomposite" plans to increase the production of high strength fibers for the mechanic engineering industry



The Holding Company "RT-Chemcomposite" plans to create the pilot production of high strength fibers from ultra-high molecular polyethylene to 2015.

Tver enterprise "VNIISV" being a member of the holding "RT-Chemcomposite" proceeds to the creation and production of high strength high modulus fibers from the ultra-high molecular polyethylene up to 25 tons per year for light composite materials of new generation on their base. "VNIISV" plans to realize the commercialization of the domestic developments and to create the basic production of UHMWPE fiber with large capacity. "The high volume output of high strength polyethylene fibers is absent in Russia and that is the main factor restraining the development and implementation of light and ultralight composite materials on their base", - noted the General Director of the Holding of "RT-Chemcomposite" Sergej Sokol.

With the global output 11-12 thousand tons per year up to 60% of the volume of high strength polyethylene fibers is processed into the different types of composite materials. At that the export deliveries do not exceed 6% from the total production volume.

UHMWPE fibers are used at the production of the body armor facilities and collective armor facilities, ultra strength cordages, rigging lines and fabrics of different assortment, composite materials for aviation, helicopter, ship and motor-car construction, armaments and military weaponry, radiotransparent protective screens, materials used in the conditions of arctic zone.

[www.i-mash.ru](http://www.i-mash.ru)

## 3. ADVERTISEMENT

### MAKS – 2013



In the context of the XI International aviation and aerospace saloon MAKS – 2013 the Union of Composite Manufacturers together with the Union of aviation manufacturers will conduct **Science and practical conference «Composite materials in civil and military aircraft production»** on August 30, 2013.



One of the main obstacles impeding the wide use of composite materials in Russia is the lack of a proper dialogue between the designers, researchers, manufacturers and users of modern materials. In this conference, Russian and international leading manufacturers of composite materials for the aviation industry will present their latest achievements.

**Location:** Moscow oblast, Zhukovskij city,

#### The basic topics of the conference:

- Latest scientific achievements and their implementation in the aviation industry;
- New methods of design and manufacturing of components from composite materials for the aviation industry;
- State-of-the-art materials and equipment for the production of parts and components from composite materials for the aviation industry;

- Design and forecasting of the features of composite materials for the aviation industry;
- Composite materials in the design, assemblies and details of aircraft: application and implementation experience

Conference visitors include representatives of Russia's and CIS' largest airplane and helicopter manufactures S.V.Ilyushin Aviation Complex, Sukhoi Civil Airplanes, Irkut Corporation, G.M. Beriyev Taganrog Aviation Research Complex, Helicopters of Russia (Vertolyoty Rossii) Rostov Production Complex; manufacturers of aircraft parts and components such as Aviastar-SP, Aerocomposite as well as manufacturers and sellers of composite materials, raw materials and semi-finished products, software developers, researchers, and journalists from dedicated media. More than 200 industry experts visited the conference organized during the MAKS-2011 Salon.

**We are pleased to invite you to participate with a presentation of your company's / institute's latest achievements in the area of manufacturing and application of composite materials for the aviation industry.**

The conference is an excellent opportunity to tell about your achievements and developments to the entire Russian aviation industry, find new partners and establish useful contacts.

Presentations telling about scientific research or practical developments are free of charge. Presentations containing advertising or marketing information about the company's products and services are made on a paid basis EUR 500 per presentation.

The length of a presentation is 15 minutes; presentations in English will be interpreted into Russian.

If you would like to make a presentation, you are kindly asked to send an application together with the presentation / summary of your speech to the Organizing Committee before 10 July 2013 to the address: [manager@uncm.ru](mailto:manager@uncm.ru).

The Committee will include speeches in the programme based on the subject and summary / full presentation. Summaries and presentations accepted by the Organizing Committee will be published in the conference digest, which will be distributed free of charge

among conference visitors and industry experts.

Participation as the listener is **FREE OF CHARGE** (*the listeners will be the entrance ticket for MAKS personally*).

**The organization committee of the event:**

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