



13th International Trade Fair for Material Applications,
Surface Technology and Product Engineering

MunichExpo
Veranstaltungs GmbH
Zamdorfer Str. 100
81677 München, Germany
Phone.: +49 (89) 322 991-0
Fax: +49 (89) 322 991-19
info@materialica.de
www.materialica.de



Trade fairs of MATERIALICA Please mark in which Trade Fair you are going to exhibit.

Composites Metal Light Ceramics Surface

Application Form

Company (Please underline keyword for alphabetical entry)

Department

Street / P.O. Box

Country / Town / Postal Code

Area Code

Phone

Fax

Contact

E-Mail

Number and place of company registration

Official representative of the company (managing director, chairman, etc.)

Address for correspondence (only if address differs from above)

Company _____

Contact _____

Street _____

Country/Town/Postal Code _____

E-Mail _____

Phone _____

Fax _____

Invoice to be made out to: _____

(only if address differs from above)

Company _____

Contact _____

Street _____

Country/Town/Postal Code _____

Number of co-exhibitors (see A 4/ B 3): _____

Number of additionally represented companies (see A 4/ B 3): _____

Target markets

Automotive

Aerospace

Engineering

Sports and consumer goods

Medical engineering

Ship building

Other Industries

Important: Please mark all your exhibits individually in the enclosed Product index.

Individual stands			Marketing Package Business (PR, visitor advertising and Forum) EUR 1.450,- (see B 7b)	Full-service package (application fee, stand construction, catalogue entry and Marketing Package Business)		
Minimum stand surface 20 sq.m.	sq.m	front (m) x depth (m)			sq.m.	front x depth
<input type="checkbox"/> Island stand (4 sides open, from 60 sq.m.) EUR 199 /sq.m.			Yes	<input type="checkbox"/> Type A	12	4 x 3
<input type="checkbox"/> End stand (3 sides open, from 40sqm) EUR 209 /sq.m.				EUR 6.188,-	20	5 x 4
<input type="checkbox"/> Corner stand (2 sides open, from 25sqm) EUR 219 /sq.m.				<input type="checkbox"/> Type B		
<input type="checkbox"/> Row stand (1 side open, from 20sqm) EUR 229 /sq.m.				EUR 8.980,-		
Additional fees: Application fee per exhibitor (see B 1 and B 3) obligatory incl. basic entry database internet, catalogue (see B 11)			EUR 550,-	<input type="checkbox"/> additional lectures (15min.) EUR 700,-		
			No	<input type="checkbox"/> Two-storey stand		

Please fill in the back of this form and take notice of the Participation Terms A and B as well as the Technical Guidelines. With this application the subscriber accepts the participation at MATERIALICA design+technology award 2010 (s. B16). The attached Participation Terms A and B as well as the Technical Guidelines are recognized as legally binding in all parts. Each applicant acting on behalf of a third party shall be directly liable for meeting the demands of MunichExpo Veranstaltungen GmbH in respect of the above fair.

Title of trade fair:

MATERIALICA 2010 *Product Engineering in Motion*
**13th International Trade Fair for Materials Applications,
 Surface Technology and Product Engineering**

Venue: New Munich Trade Fair Centre

Duration: 19 *to* 21 October 2010

Opening hours:

Tuesday	9:00 a.m. to 7:00 p.m.
Wednesday	9:00 a.m. to 7:00 p.m.
Thursday	9:00 a.m. to 5:00 p.m.

Organizer and financing body:

MunichExpo Veranstaltungen GmbH (MEV)

Zamdorfer Str. 100

81677 München, Germany

Phone: +49 (89) 322 991-0, Fax: +49 (89) 322 991-19,

info@materialica.de, www.materialica.de

Special Terms of Participation (B)

As at October 2009

All prices indicated below are net, and are subject to statutory value-added tax.

B 1 Application (see A 1)

The application is filed on the following form which has to be filled in and signed with a legally binding signature and then returned immediately to MEV. One copy is retained by the exhibitor.

Application fee: EUR 550 per exhibitor. In this fee the basic entry for the catalogue and the internet exhibitor database is included. (see B 11a)

B 2 Permitted exhibits and exhibitors (see A 2)

All domestic and foreign manufacturers and service enterprises will be admitted. Professional traders offering written proof of their **exclusive selling rights** for Germany for the products they exhibit will also be admitted provided the manufacturing company itself does not exhibit these products.

All exhibits must be new and must comply with the Product Index. Items that are either not registered or not approved may not be exhibited. MEV decides on the approval of the application. There is no right to admission. Admission will be confirmed in writing.

B 3 Co-exhibitors and additionally represented companies (see A 1,2,4)

There is a fee of EUR 550 for each co-exhibitor or additionally represented company. This fee includes the basic entry for the catalogue and the internet exhibitor database (see B 11a). Co-exhibitors and additionally represented companies must be registered by the main exhibitor on a separate form.

B 4 Participation fees, advance payment for services (see A 7)**Individual stands**

Minimum stand size: 20 sq.m.

Focus Area marketing concept (see B 7b) each EUR 1,450
 The prices for participation indicated below are net for each sq.m. ground floor space.

Island stand (4 sides open, from 60 sq.m.) EUR 199

End stand (3 sides open, from 40 sq.m.) EUR 209

Corner stand (2 sides open, from 25 sq.m.) EUR 219

Row stand (1 side open, from 20 sq.m.) EUR 229

Full-service package type A (see B 7a) EUR 6.188

Full-service package type B (see B 7a) EUR 8.980

Upper storey stand space costs 50% of the price of the respective ground floor space.

B 5 Terms of payment (see A 7)

The participation fee shall be invoiced to the exhibitor in two part invoices, each to the value of 50% of the total participation fee. The first part will be invoiced right after the approval. The second part will be invoiced 4 month before the trade fair. If registration is late, after the 1st of March 2010, then the exhibitor shall receive an invoice for 100% of the participation fee. Objections shall be made in writing immediately after reception. Objections made later shall not be valid. Any invoices shall be paid, without a discount, immediately to the invoicing office. Payment of the invoiced amount in advance and in full shall be the precondition for the right to use the exhibition space, for entry in the catalogue and for the issue of exhibitor passes. All the amounts in all of the invoices issued by MEV, and which are connected with the event, shall be paid in Euros to one of the accounts listed on the invoice, without any discount or expenses. If the payment is made late by the exhibitor, MEV shall reserve the right to charge collection costs of 3% of the invoiced amount.

B 6 Dates of setting up and dismantling (see A 14)

Stands may be set up starting on 16 October 2010 at 8:00h.

All delivery and stand-construction vehicles must be removed from the halls and from the open-air area by 16:00h, on 18 October 2010, the last day of setting-up. Vehicles which are still in the halls or the open-air area after these times will be removed by MEV at the risk and expense of the exhibitor concerned. Setting-up must be finished by 18:00h. An extension is possible only in exceptional cases with the written permission of MEV.

Dismantling begins on 21 October 2010 at 18:00h and must be completed by 22 October 2010 at 18:00h.

Full-service package stands are available from 12:00h on 18 October 2010.

B 7 Stand design and equipment

The height of stands is 4 m. The written consent of MEV must be obtained before planning a stand exceeding 4 metres or a two-storey stand. MEV does not provide partition walls between the stands.

B 7a Stand design and equipment**The basic components of the full-service packages:**

Application fee is including the basic entry for the catalogue and the internet exhibitor database. **Important:** Please note that the exhibitors must take out insurance for the exhibits.

Full-service packages**Type A: 12 sq.m.**

Equipment:

~ Stand area 4 x 3 m

~ Stand design:

- . 2.5-m high stand walls
- . Lockable closet (1 sq.m.) with wardrobe and shelf
- . Carpeting
- . 3-kW electrical connection with triple outlet (including electricity)
- . Lighting
- . 1 brochure stand
- . 1 high table
- . 2 bar stools
- . 1 showcase
- . facia inscription

Type B: 20 sq.m.

Equipment:

~ Stand area 5 x 4 m

~ Stand design:

- . 2.5-m high stand walls
- . Lockable closet (2 sq.m.) with wardrobe and shelf
- . Carpeting
- . 3-kW electrical connection with triple outlet (including electricity)
- . Lighting
- . 1 brochure stand
- . conference table
- . 4 chairs
- . 1 high table
- . 2 bar stools
- . 1 showcase
- . facia inscription

B 7b The Marketing Package Business includes the following services:

- . 1 entry in the MATERIALICA Industry-Newsletter
- 1 editorial article in the MATERIALICA Magazin
- 15 minute contribution at the MATERIALICA Forum
- 1 pressbox

B 8 Technical installations

Applications for electrical installations, water, drainage, and telephone connections can be considered only if submitted in due time on the order forms available from MEV.

The precise terms of delivery and connection fees are stated on these forms.

B 9 Use of equipment

Only cranes, fork-lift trucks and working platforms may be used that have been provided by the New Munich Trade Fair Centre service partners responsible. In special cases, permission must be obtained from New Munich Trade Fair Center.

B 10 Sales regulations

Direct sales and other services or deliveries made from the stand are not permitted. Exhibited goods must not be delivered to purchasers until after the fair closes. In accordance with section 64 of the trade regulations (GewO), sales are permitted only to wholesalers, retail traders or trade customers.

B 11 Catalogue, Internet

An official trade fair catalogue will be published. This catalogue contains a list of all exhibitors (including co-exhibitors and additionally represented companies) with their specified basic entry (see B 11a). This list will also be published on the Internet. The price of lines and entries in the lists of exhibitors and goods and any other indexes, can be seen on the respective order forms. These forms will be sent to the exhibitor in good time. MEV undertakes no guarantee of the accuracy or completeness of the catalogue.

B 11a Basic entry Catalogue, Internet

In the alphabetical list

- Name of the company

- Hall, stand number

- Address

- Phone and fax number

- email address

- URL

1 entries in the product index with company name, hall and stand number

B 12 Exhibitors' passes (see A 13)

Depending on the size of the stand, each exhibitor receives a specific number of exhibitor passes free of charge.

Stand size 12 sq.m. 2 passes

20 sq.m. 3 passes

over 20 sq.m. 3 passes plus one additional pass for every additional 20 sq.m. or part thereof

The number of exhibitors' passes is not increased for co-exhibitors or additionally represented companies. Additional exhibitors' passes are available from the trade fair management at EUR 29 each. Exhibitors' passes are intended solely for stand personnel and must not be passed on to third parties.

B 13 Circular letters

Once the stands have been allocated, exhibitors will be informed by circular of further details concerning preparation and organization of the trade fair.

B 14 Sound and background noises

Video and musical performances as well as stage shows are allowed only with a special permit from MEV.

These performances must be conducted in such a way that neither visitors nor other exhibitors are disturbed or adversely affected.

The maximum permitted noise level is 65 dB(A). The use of electronic amplifiers is forbidden.

B 15 Alterations

MEV reserves the right to make alterations and additions in matters affecting technical arrangements and safety.

B 16 MATERIALICA Design+Technology Award 2010

Every exhibitor is also participant at the MATERIALICA design +technology award 2010 and is committed to pay in case of winning 660 " for the exhibition and 290 " for the documentation.

GENERAL TERMS OF PARTICIPATION (A)

MunichExpo Veranstaltungen GmbH (MEV) As at October 2008

A 1 Application

Application shall be made exclusively on the attached form. The application is binding irrespective of an admission by MEV. Upon reception by MEV, the application is not considered executed and final until notice was given whether the applicant is admitted or finally rejected. For the purpose of an automatic processing of the application, all data will be stored and may only be passed on to third parties involved in the execution of the contract, if applicable. Special requests as to location will be taken into consideration, if possible, but do not represent a qualification for participation. An exclusion of competition is not provided. The general terms of participation A and B are accepted as legally binding upon submission of the application. All exhibits must be described precisely on the application form. Co-exhibitors and additionally represented companies must be named on the application form. The same particulars as for the exhibitors himself must be specified in the application. Incomplete applications cannot be considered.

A 2 Notice of admission

The exhibitor will receive his notice of admission together with the allocation of space and stand confirmation. MEV's notice of admission is, at the same time, its acceptance of the contractual offer and may be made until the beginning of the event.

Exhibitors do not have a legal claim to admission unless such a claim results from the law. Companies that have not fulfilled their financial obligations to MEV, e.g., in respect of previous events, or have infringed the regulations governing the use of the respective event venues or the terms of participation, may be excluded from admission.

MEV is entitled to withdraw from the contract or to terminate the contractual relationship without notice if admission was based on incorrect or incomplete statements by the exhibitor, or if, at a later date, the exhibitor no longer fulfils the conditions for admission. Only declared and admitted articles shall be exhibited. MEV has the right to remove any other exhibits at the exhibitor's risk and expense.

Rented or leased objects may not be exhibited. MEV is entitled to remove such objects at the exhibitor's risk and expense. An exception is made in the case of objects which are not part of the exhibitor's range of goods, but which are required for their display (e.g. for demonstration purposes).

Co-exhibitors shall not be admitted, nor additional organizations represented, unless expressly specified in the notice of admission.

MEV reserves the right to deviate from the type, size, and location of the exhibition area desired by the exhibitor, to exclude certain exhibits from admission, and to impose conditions on admission. The exhibitor's reservations, conditions, and particular wishes (e.g. regarding location, exclusion of competitors, stand construction or design) will be taken into account only if expressly confirmed in the notice of admission.

Space will be allocated according to MEV's requirements and the prevailing conditions, and in accordance with the sectoral breakdown which MEV may apply at its own discretion, and not according to the order in which applications are received.

A 3 Rental contract

The rental contract comes into force when MEV has notified the exhibitor in writing on the admission/stand confirmation.

The allocation of the other stands, in particular of neighbouring stands, can change by the time the trade fair opens. MEV is also entitled to relocate or close entrances to and exits from the trade fair grounds and halls, and to make other structural alterations.

Exhibitors cannot make claims against MEV because of such changes. MEV may also subsequently, i.e., after the rental contract has come into force, change space allocations, and in particular change the location, type, dimensions and size of the exhibition area rented by the exhibitor, insofar as this is necessary for reasons of safety or public order, or because the trade fair is oversubscribed and further exhibitors must be admitted or because changes in assignments of exhibition space ensure that the facilities and space required for the trade fair are used more efficiently. However, such subsequent changes may not exceed the scope which the exhibitor can reasonably be expected to accept. Should such subsequent changes result in a lower participation fee, the difference in amount will be refunded to the exhibitor. Further claims against MEV are excluded. If exhibitors cannot use their stand space or are impaired in the use of their stand because they have infringed legal or official regulations or the Terms of Participation A and B or the Technical Guidelines, they are nevertheless obliged to pay the participation fee in full and to pay MEV compensation for all damage caused by themselves, their legal representatives or employees; exhibitors are not entitled to cancel or terminate the contract unless the law specifically entitles them to do so.

A 4 Co-exhibitors and additionally represented companies

A co-exhibitor is one who presents his own goods or services, using his own staff, at the stand of another exhibitor (the main exhibitor). This definition includes group companies and subsidiaries. Agents and representatives are not admitted as co-exhibitors.

In the case of an exhibitor, an additionally represented company is any other company whose goods or services are offered by the exhibitor.

Admission of the exhibitor does not mean that a contract exists between MEV and the co-exhibitors or other companies he represents. Co-exhibitors are admitted against payment. This also applies to additionally represented companies if specified in the Special Terms of Participation B. The exhibitor must make this payment. The amount can also be invoiced subsequently by MEV.

The exhibitor is responsible for ensuring that his co-exhibitors and other companies he represents comply with the Terms of Participation A and B, the Technical Guidelines as well as the instructions of the Trade Fair Management. The exhibitor is liable for the debts and negligence of his co-exhibitors or additionally represented companies as if they were his own. If co-exhibitors make direct use of MEV services, MEV is entitled to invoice the exhibitor for these services. He is jointly and severally liable.

The exhibitor may not move, exchange or share his stand, nor surrender it either in part or in whole to third parties, without MEV's prior written consent.

A 5 Cancelling the contract

If the location, type, dimensions or size of the exhibition area rented by the exhibitor are subsequently changed so much that the exhibitor can no longer be reasonably expected to accept the exhibition area, the exhibitor is entitled to withdraw from the rental contract within one week of receiving written notification by MEV. Otherwise, apart from the statutory rights to withdraw from the contract, the exhibitor has no right to withdraw from this contract. If the exhibitor states that he is withdrawing from the contract, this means - regardless whether he has the right to withdraw from the contract or not - that he is renouncing once and for all his intention to take part in the trade fair. If the exhibitor states that he is withdrawing from the contract and thus renounces once and for all his intention to take part in the trade fair, MEV is entitled to re-let the stand area or use it itself without being obliged to do so, even if the exhibitor has no right to withdraw from the contract. If the exhibitor has stated that he is withdrawing from the contract, although he has no right to do so, the exhibitor is obliged to pay the participation fee. However, MEV must allow as a credit the value of the expenses saved and the advantages it has gained by re-letting or otherwise using the exhibition area; the exhibitor cannot invoke Section 537 Para 2 BGB (German Civil Code). In addition, the exhibitor must pay 25% of the agreed participation fee as flat-rate compensation for expenses incurred by MEV because the exhibitor has withdrawn from the contract without being entitled to do so and has thus, contrary to his duty, cancelled his participation in the trade fair. MEV's right to claim further damages remains unaffected. The exhibitor can demand that the flat-rate compensation be reduced if he proves that MEV has sustained less damage.

MEV is entitled to withdraw from the contract if the exhibitor fails to meet his financial obligations to MEV on time, MEV has extended the deadline by 5 days and this deadline

for payment has not been met. MEV is also entitled to withdraw from the contract if the exhibitor neglects his duty arising from this contract to respect MEV's rights, objects of legal protection and interests and MEV can no longer reasonably be expected to adhere to the contract. In the aforementioned cases MEV is entitled not only to withdraw from the contract but also to demand from the exhibitor the agreed participation fee as flat-rate compensation. MEV's right to claim further damages remains unaffected. The exhibitor can demand that the flat-rate compensation be reduced if he proves that MEV has sustained less damage.

A 6 Force majeure, cancellation of the event

If MEV is compelled, as a result of force majeure or other circumstances beyond its control (e.g., failure of the power supply), to vacate one or more exhibition areas, temporarily or for longer periods, or to postpone or curtail the trade fair, the exhibitors do not thereby acquire the right to withdraw or cancel, nor do they have any other claims against MEV, in particular claims for damages.

If MEV cancels the event because it cannot hold the event as a result of force majeure or other circumstances beyond its control, or because it has become unreasonable for MEV to hold the event, MEV is not liable for damages and disadvantages to exhibitors arising from the cancellation of the event.

A 7 Participation fees, lien

The participation fees are calculated in accordance with the rates specified in the Special Terms of Participation (see Part B "Participation fees"). Each square metre or part thereof will be included in full in the calculation, the floor area always being considered rectangular, without taking account of projections, supports, service connections and the like. In accordance with the Special Terms of Participation (see Part B "Advance payment for services), a lump-sum advance payment will be levied for services (eg, electricity, water, telephone connections, technical services, lettering, supply of electricity, water, etc), which the exhibitor can use at his stand, provided they have been ordered previously and in good time as specified in the Exhibitors' Service Booklet, regardless of the existence or size of an order. The advance payment for services does not include stand construction and publishing services (catalogue entries, Internet services, etc.) If the actual costs of the services exceed the advance payment for services, the exhibitor will be charged the difference between the actual costs of the services and the advance payment in the final invoice several weeks after the end of the event. Payment is due immediately upon receipt of the invoice. If the advance payment for services exceeds the actual costs of the services, the exhibitor will be refunded the difference between the advance payment and the actual costs of the services several weeks after the end of the event. The exhibitor has no claim to interest on the advance payment for services.

The exhibitor will usually receive the invoice for the participation fee, with which the advance payment for services is also levied, together with notice of admission. Notice of admission and invoice are combined in one printed form.

The participation fee, the advance payment for services and the fee for admitting co-exhibitors must be paid before occupying the exhibition area. If exhibitors have ordered MEV services, MEV is entitled to withhold such services, including the supply of electricity, water, compressed air, etc., until the exhibitor has fulfilled his financial obligations to MEV. This applies in particular to obligations arising from previous events. Terms and conditions of payment are in accordance with the Special Terms of Participation (see Part B "Terms and conditions of payment"). MEV reserves the right to enforce the lessor's lien, as permitted by law, in order to secure its claims arising from the rental. The exhibitor must inform MEV at any time about the ownership of articles, which are exhibited or to be exhibited. If an exhibitor does not meet his financial obligations, MEV can detain the exhibits and stand fittings and, at the exhibitor's expense, sell them at public auction or privately. The legal provisions on the realisation of the pledge are, as far as permitted by law, excluded. MEV does not accept liability for damage to exhibits and stand fittings detained under this clause, unless MEV is guilty of intent or gross negligence. Upon the exhibitor's special application, MEV can agree to invoice a third party for the participation fee, the fee for admitting co-exhibitors and prices for services. This is possible only if the third party undertakes to assume financial obligations or debts vis-à-vis MEV and MEV agrees with this.

A 8 Warranty

Complaints about any defects in the stand or exhibition area are to be made in writing to MEV immediately on occupying the exhibition area, and at the latest on the last day for stand assembly, so that MEV can remedy such defects. Later complaints cannot be considered and cannot give rise to claims against MEV.

A 9 Liability and insurance

MEV is liable for personal injury (damage arising from injury to life, body or health) caused by neglect of duty for which MEV, its legal representatives or employees are responsible, as well as for other damage caused by intentional or grave breach of duty by MEV, its legal representatives or employees. MEV is also liable for any damage caused by grave breach of cardinal duties by MEV, its legal representatives or employees. In these cases MEV is liable only if the damage is typical damage and not consequential damage and then only up to 5 times the net participation fee, at most, however, EUR100,000 per claim. This limitation of liability applies only to entrepreneurs, legal persons under public law or special funds under public law. If the exhibitors are entrepreneurs, legal persons under public law or special funds under public law, MEV is under no circumstances liable for damage to or loss of goods brought to the trade fair by the exhibitor or the stand fittings or furnishings. In this case, it is immaterial whether such damage or loss occurs before, during or after the trade fair. The same applies to vehicles left on the trade fair grounds by exhibitors, their employees or representatives.

Exhibitors for their part are liable for any culpable damage to persons and property caused by themselves, their employees, their representatives, their exhibits or equipment. A leaflet on the scope and cost of insurance and application forms will be sent to exhibitors in good time. Each exhibitor is required to take out insurance which includes transport and exhibition risks, including theft and third-party liability by an insurance company licensed in the European Union, and to pay the premiums due (including insurance tax) in good time.

A 10 Photography, filming, video recording, and sketching

Only persons authorised by MEV and in possession of a valid MEV pass may film, photograph, or make sketches or video recordings in the exhibition halls. Under no circumstances may photographic or other images or recordings be made of other exhibitors' stands. If this rule is infringed, MEV can demand that the recorded material be surrendered and take legal steps to achieve this end. Photographs of stands which are to be taken outside normal opening hours and need special lighting require MEV's prior consent. Such photographs require the main ring circuit to be switched on by the hall electrician. The exhibitor will be charged the costs incurred, insofar as they are not borne by the photographer.

MEV is entitled to have photographs, drawings, films and video recordings made of events at the trade fair, of stands and exhibits, and to use them for advertising or general press publications.

A 11 Catering, deliveries to stands

The caterers appointed by MEV are responsible for all catering within the trade fair grounds. Deliveries of beer or other beverages may be made only by companies contracted to MEV.

If exhibitors wish to offer food and beverages in accordance with section 12 of the German Law on Hotels and Restaurants (Gaststättengesetz), they must apply to the city authorities for permission: Kreisverwaltungsreferat München, Ruppertstr. 19, 80313 München, Germany. Only a limited number of deliveries may be made to the exhibition stands. MEV is entitled to permit deliveries to stands only at certain times.

A 12 Industrial property rights

MEV expects exhibitors to respect the industrial property rights of other exhibitors. If it is proved to MEV, by presentation of a court decision, that an exhibitor has infringed the industrial property rights of another exhibitor with the articles on display, printed papers, advertising materials, or otherwise, then MEV is entitled, although not obliged, to remove from the offender's stand the exhibits, printed matter, or advertising material causing such infringement and to impound them until the end of the trade fair, to close the offender's stand, and/or to expel him and his staff from the trade fair grounds. MEV is also entitled to exclude the offender from future trade fairs. If such measures prove unjustified, no claim for damages can be made against MEV, unless the latter is guilty of gross negligence or wrongful intent.

A 13 Workers and exhibitors passes

Exhibitors will receive free workers passes made out in the names of their own and hired workers employed to assemble and dismantle the stands. These passes are valid only during trade fair assembly and dismantling and do not entitle holders to enter the trade fair grounds during the event. Workers passes must not be given or lent to unauthorised persons. Unauthorised persons are all third parties who do not have a permanent or temporary work contract with the exhibitor. For the duration of the trade fair, exhibitors will receive the number of free exhibitors passes specified in the Special Terms of Participation. Additional exhibitors passes are available against payment. Each exhibitor's pass is made out in the bearer's name. It cannot be transferred. Exhibitors passes must not be given or lent to unauthorised third parties, e.g., to persons or companies wishing to offer goods or services within the trade fair grounds without MEV's permission. Workers and exhibitors passes will only be issued if all accounts due to MEV have been cleared, above all in respect of the payment of the permit invoice and the fee for stand construction services.

A 14 Assembly, staffing and dismantling of stand

The dates for assembly and dismantling, specified in the Special Terms of Participation, must be observed. Stands not occupied by the last day for assembly may be disposed of as MEV sees fit. Exhibitors admitted to the fair undertake to participate in the event. The stand must be properly equipped and staffed by qualified personnel throughout the trade fair during the prescribed opening hours. Particular attention should be paid to ensuring that the stand is already fully staffed when the trade fair opens. Exhibitors are not permitted to remove trade fair goods or dismantle their stands before the trade fair closes. If they break this rule, MEV is entitled to demand a penalty of EUR 500. MEV is entitled to exclude from future trade fairs any exhibitor whose stand is staffed by insufficiently qualified personnel during the trade fair's opening hours, who exhibits an incomplete range of goods or goods not admitted to the trade fair, who vacates or clears his stand before the end of the trade fair, or who otherwise infringes the Terms of Participation, without prejudice to MEV's right to cancel the contract in accordance with Section A 5 or to a claim for all costs thereby incurred by MEV.

A 15 Verbal agreements

All verbal agreements, individual and special arrangements are valid only with MEV's written confirmation.

A 16 Regulations for use

Exhibitors must observe strictly the regulations governing the use of the trade fair grounds (New Munich Trade Fair Centre). Exhibitors are not permitted to spend the night in the halls or on the open-air grounds. Exhibitors must take the other participants in the event into consideration, must not act contrary to public policy and must not misuse their participation in the event for ideological, political or other purposes which have nothing to do with the event.

A 17 Statutory period of limitation

All the exhibitor's claims against MEV arising from the stand rental, and all legal proceedings in connection therewith, lapse after a period of six months from the end of the month in which the closing date of the fair falls.

A 18 Place of performance, applicable law

If the exhibitor is a trader, legal person under public law or special fund under public law, Munich shall be the place of performance, also for all financial obligations. Only German law shall apply.

A 19 Jurisdiction, arbitration agreement

The following shall apply to exhibitors with their principal place of business within the Federal Republic of Germany:

If the exhibitor is a trader, legal person under public law or special fund under public law, the Munich courts shall have jurisdiction. MEV is also entitled, if it so wishes, to bring an action against the exhibitor at the court which has jurisdiction at the exhibitor's principal place of business.

The following shall apply to exhibitors with their principal place of business outside the Federal Republic of Germany but within the area of application of Regulation (EC) No. 44/2001, the EC Convention on Jurisdiction and the Enforcement of Judgments in Civil and Commercial Matters and the Lugano Convention:

If the exhibitor is engaged in a trade or business and does not fall under the general jurisdiction of the Federal Republic of Germany, the Munich courts shall have jurisdiction for all disputes arising from or in connection with this contract. MEV is also entitled, if it so wishes, to bring an action against the exhibitor at the court which has jurisdiction at the exhibitor's principal place of business.

The following shall apply to exhibitors with their principal place of business outside the Federal Republic of Germany and outside the area of application of Regulation (EC) No. 44/2001, the EC Convention on Jurisdiction and the Enforcement of Judgments in Civil and Commercial Matters and the Lugano Convention:

All disputes arising from or in connection with this contract whose value does not exceed EUR100,000.00 shall be decided by the Euro arbitration of the European network REAM. The court of arbitration of the Italian Chamber of Commerce in Munich shall be the arbitration centre. Arbitration proceedings shall be held in Munich and conducted in German. A sole arbitrator shall decide on the dispute as seems fair and reasonable. The parties undertake to abide by the arbitral award.

Disputes exceeding a value of EUR100,000.00 shall be subject to the arbitration of the court of arbitration of the Italian Chamber of Commerce in Munich with its rules of arbitration. Arbitration proceedings shall be held in Munich and conducted in German. A sole arbitrator shall decide on the dispute as seems fair and reasonable. The parties undertake to abide by the arbitral award.

. In case of divergence between the English and the German text, the German shall prevail.



Product Index

1 Applications

1.1 Transportation technology

- 1.1.1 Automotive
 - 1.1.1.1 Engine and transmission
 - 1.1.1.2 Wheels and suspension
 - 1.1.1.3 Interior
 - 1.1.1.4 Bodywork
 - 1.1.1.5 Comfort
 - 1.1.1.6 Safety
 - 1.1.1.7 Automotive services
 - 1.1.1.8 Racing
 - 1.1.1.9 Automotive recycling
 - 1.1.1.10 Other automotive components
- 1.1.2 Aerospace
 - 1.1.2.1 Aircraft cell
 - 1.1.2.2 Propulsion components
 - 1.1.2.3 Heat shielding
 - 1.1.2.4 Satellite technology
 - 1.1.2.5 Wing components
 - 1.1.2.6 Other aerospace components

1.1.3 Rail vehicles

- 1.1.3.1 Motive power
- 1.1.3.2 Assemblies
- 1.1.3.3 Wheel/track system
- 1.1.3.4 Equipment
- 1.1.3.5 Other rail vehicle components

1.1.4 Transportation technology other

- 1.1.4.1 Ships
- 1.1.4.2 Boat and yacht structures
- 1.1.4.3 Motorcycles
- 1.1.4.4 Bicycles
- 1.1.4.5 Moving of sick and disabled persons
- 1.1.4.6 special-purpose vehicle

1.2 Mechanical engineering / robotics

- 1.2.1 Robotics
- 1.2.2 Mechanical engineering
- 1.2.3 Tool machines
- 1.2.4 Consumables
- 1.2.5 Auxiliary materials

1.3 Plant engineering

1.3.1 Energy and power

- 1.3.1.1 Combustion engines
- 1.3.1.2 Steam turbines
- 1.3.1.3 Gas turbines
- 1.3.1.4 Energy storage
- 1.3.1.5 Heating/cooling
- 1.3.1.6 Wind power
- 1.3.1.7 Photovoltaics
- 1.3.1.8 Fuel cells
- 1.3.1.9 Superconductors
- 1.3.1.10 Other technologies

1.3.2 Chemical engineering

- 1.3.2.1 Chemical apparatus
- 1.3.2.2 Vessels
- 1.3.2.3 Pumps
- 1.3.2.4 Compressors
- 1.3.2.5 Fittings
- 1.3.2.6 Filtration
- 1.3.2.7 Sealing
- 1.3.2.8 Separation
- 1.3.2.9 Mixing
- 1.3.2.10 Reactors
- 1.3.2.11 Pipes, tubes, directions

1.4 Sports und consumer goods

- 1.4.1 Sports equipment in general
- 1.4.2 Winter sports equipment (Ski, snowboards etc.)
- 1.4.3 Outdoor and mountain equipment
- 1.4.4 Sports wear and shoes
- 1.4.5 Consumer electronics
- 1.4.6 Household appliances
- 1.4.7 Sanitary installations
- 1.4.8 Summer sports equipment (surfing, skating etc.)
- 1.4.9 Fitness equipment

- 1.4.10 Wellness equipment
- 1.4.11 Furniture
- 1.4.12 Product and industrial design
- 1.4.13 Fairs and exhibitions
- 1.4.13 Packaging

1.5 Medical engineering

- 1.5.1 Implants
- 1.5.2 Prosthetics
- 1.5.3 Tissue substitutes
- 1.5.4 Instruments
- 1.5.5 Sterilisation techniques
- 1.5.6 Dressing material, tape, splints

1.6 Information technology

- 1.6.1 Embedded Systems
- 1.6.2 Fibre optics
- 1.6.3 Cabling
- 1.6.4 Sensors and actuators
- 1.6.5 Substrates
- 1.6.6 Displays
- 1.6.7 Storage media
- 1.6.10 Textile Technology

2 Materials, Components and Semi-finished product of

2.1 METAL LIGHT

2.1.1 Metals

- 2.1.1.1 Iron and steel
- 2.1.1.2 Lead, zinc, tin
- 2.1.1.3 Copper
- 2.1.1.4 Other non-ferrous metals
- 2.1.1.5 Alloys
- 2.1.1.6 Precious metals
- 2.1.1.7 Special Metals
- 2.1.1.8 Amorphous metals and alloys

2.2 Light metals

- 2.2.1 Aluminium and Aluminium Alloys
- 2.2.2 Magnesium and Magnesium alloys
- 2.2.3 Titanium and Titanium alloys
- 2.2.4 Light metal composites

2.3 CERAMICS

- 2.3.1 Aluminium Nitride
- 2.3.2 Alumina
- 2.3.3 Aluminium Titanate
- 2.3.4 Barium Titanate
- 2.3.5 Boron Carbide
- 2.3.6 Boron Nitride
- 2.3.7 Cordierite
- 2.3.8 CMC
- 2.3.9 DLC
- 2.3.10 Glasses
- 2.3.11 Glass Ceramics
- 2.3.12 Carbon Materials
- 2.3.13 Magnesium Oxide
- 2.3.14 Mullite
- 2.3.15 Porcelain
- 2.3.16 Quartz
- 2.3.17 Sialone
- 2.3.18 Silicon Carbide
- 2.3.19 Silicon Nitride
- 2.3.20 Special Materials
- 2.3.21 Steatite
- 2.3.22 Titan dioxide
- 2.3.23 Tungsten Carbide
- 2.3.24 Zirconium Oxide
- 2.3.25 Others

2.4 SURFACE

2.4.1 Surface technologies

- 2.4.1.1 Abrasion Proof Surfaces
- 2.4.1.2 Adaptive Surface
- 2.4.1.3 Anti Fogging Surfaces
- 2.4.1.4 Anti Fouling Surfaces
- 2.4.1.5 Anti Fingerprint Surfaces
- 2.4.1.6 Anti Adhesion Surfaces
- 2.4.1.7 Barrier Surfaces
- 2.4.1.8 Bio Active Surfaces
- 2.4.1.9 Bio Inert Surfaces
- 2.4.1.10 Decorative Surfaces
- 2.4.1.11 Electrochemical Active Surfaces

- 2.4.1.12 Colour Giving Surfaces
- 2.4.1.13 Ferroelectric Surfaces
- 2.4.1.14 Galvanic Surfaces
- 2.4.1.15 Hard Material Surfaces
- 2.4.1.16 Lacquer
- 2.4.1.17 Colour
- 2.4.1.18 Hydrophobic Surfaces
- 2.4.1.19 Electrical Insulating Surfaces
- 2.4.1.20 Thermal Insulating Surfaces
- 2.4.1.21 Catalytic Active Surfaces, Corrosion Protection Surfaces
- 2.4.1.22 Scratch Resistant Surfaces
- 2.4.1.23 Electrical Conductive Surfaces
- 2.4.1.24 Thermal Conductive Surfaces
- 2.4.1.25 Magnetic Surfaces
- 2.4.1.26 Multi Functional Surfaces
- 2.4.1.27 Nanostructured Surfaces
- 2.4.1.28 Optical Surfaces
- 2.4.1.29 Photo chromic Surfaces
- 2.4.1.30 Photocatalytic Surfaces
- 2.4.1.31 Photonic Surfaces
- 2.4.1.32 Photovoltaic Surfaces
- 2.4.1.33 Self Cleaning Surfaces
- 2.4.1.34 Self Greasing Surfaces
- 2.4.1.35 Sensoric Surfaces
- 2.4.1.36 Structured Surfaces
- 2.4.1.37 Ultra Precise Surface
- 2.4.1.38 UV Protecting Surfaces
- 2.4.1.39 Wear Resistant Surfaces
- 2.4.1.41 Further Coating and Surface Functions:

2.4.2 Nano materials

- 2.4.2.1 Dendrimers
- 2.4.2.2 Fullerenes
- 2.4.2.3 Nano Components
- 2.4.2.4 Nano Coatings
- 2.4.2.5 Nano Chips
- 2.4.2.6 Nano Container
- 2.4.2.7 Nano Fibers
- 2.4.2.8 Nano Capsules
- 2.4.2.9 Nano Machines
- 2.4.2.10 Nano Particles
- 2.4.2.11 Nano Porous Systems
- 2.4.2.12 Nano Powders
- 2.4.2.13 Nanotubes
- 2.4.2.14 Nano Scaled Additives
- 2.4.2.15 Nano Scaled Fillers
- 2.4.2.16 Nano Scaled Catalysts
- 2.4.2.17 Nano Scaled Pigments
- 2.4.2.18 Nano Systems
- 2.4.2.19 Nano Composites
- 2.4.2.20 NEMS
- 2.4.2.21 OLED
- 2.4.2.22 Quantum Dots
- 2.4.2.23 Switchable Adhesives
- 2.4.2.24 Zeolites
- 2.4.2.25 Further Nanomaterials:

2.5 COMPOSITES

2.5.1 Resins

- 2.5.1.1 Epoxy Resins
- 2.5.1.2 Phenolic Resins
- 2.5.1.3 Polyester Resins
- 2.5.1.4 Vinylester Resins
- 2.5.1.5 Polyamide Resins
- 2.5.1.6 Polycarbonate Resins
- 2.5.1.7 Polyimide Resins
- 2.5.1.8 Polyphenylene Oxide Resins
- 2.5.1.9 Polyurethane Resins
- 2.5.1.10 Thermoplastic Resins
- 2.5.1.11 Other Resins and Resin Systems:

2.5.2 Additives, Auxiliary Materials and Fillers

- 2.5.2.1 Anti-Static Agents
- 2.5.2.2 Wetting Agents
- 2.5.2.3 Accelerators
- 2.5.2.4 Binders
- 2.5.2.5 Mould Release Agents
- 2.5.2.6 Dyes

- 2.5.2.7 Flame Retardants
- 2.5.2.8 Fillers
- 2.5.2.9 Hardeners
- 2.5.2.10 Inhibitors
- 2.5.2.11 Initiators
- 2.5.2.12 Catalysts
- 2.5.2.13 Coupling Agents
- 2.5.2.14 Macrospheres
- 2.5.2.15 Microspheres
- 2.5.2.16 Nanofillers
- 2.5.2.17 Nanotubes
- 2.5.2.18 Organic Peroxides
- 2.5.2.19 Pigments
- 2.5.2.20 Plasticizers
- 2.5.2.21 Precursors
- 2.5.2.22 Surfactants
- 2.5.2.23 Separating Agents
- 2.5.2.24 Other Additives and Auxiliary materials:

2.5.3 **Fibres, Filaments and Rovings**

- 2.5.3.1 Aramid Fibres
- 2.5.3.2 Boron Fibres
- 2.5.3.3 Yarns
- 2.5.3.4 Woven Rovings
- 2.5.3.5 Glass Fibres
- 2.5.3.6 Graphite Fibres
- 2.5.3.7 Ceramic Fibres
- 2.5.3.8 Carbon Fibres
- 2.5.3.9 Continuous Filaments
- 2.5.3.10 Continuous Rovings
- 2.5.3.11 Polymer Fibres
- 2.5.3.12 Multifilaments
- 2.5.3.13 Natural Fibres
- 2.5.3.14 SiC-Fibres
- 2.5.3.15 Silicon Fibres
- 2.5.3.16 Special Reinforcement Fibres
- 2.5.3.17 Whiskers
- 2.5.3.18 Other Fibres, Filaments and Rovings

2.5.4 **Fabrics**

- 2.5.4.1 Bias Fabrics
- 2.5.4.2 3D Textiles
- 2.5.4.3 Geotextiles
- 2.5.4.4 Woven Fabrics
- 2.5.4.5 Knitted Fabrics
- 2.5.4.6 Mats
- 2.5.4.7 Multiaxial Fabrics
- 2.5.4.8 Polyester Mats
- 2.5.4.9 Technical Textiles
- 2.5.4.10 Unidirectional Fabrics
- 2.5.4.11 Reinforcements
- 2.5.4.12 Fabrics, nonwoven
- 2.5.4.13 Other Fabrics:

2.5.5 **Composites materials**

- 2.5.5.1 Coatings
- 2.5.5.2 Bulk Molding Compounds, BMCs
- 2.5.5.3 Thermosetting Composites
- 2.5.5.4 Elastic Composites
- 2.5.5.5 Fibre Reinforced Plastics (FRPs)
- 2.5.5.6 Fibre Reinforced Materials
- 2.5.5.7 Films
- 2.5.5.8 Foils
- 2.5.5.9 Gel Coats
- 2.5.5.10 Gels
- 2.5.5.11 Glass fibre Reinforced Plastic, GRPs
- 2.5.5.12 Wood Cores
- 2.5.5.13 Ceramic-Matrix-Composites, CMCs
- 2.5.5.14 Core Materials, general
- 2.5.5.15 Adhesives
- 2.5.5.16 Carbon Fibre Reinforced Polymer, CFRPs
- 2.5.5.17 Carbon/Carbon Composites
- 2.5.5.18 Polymer Matrix Composites, PMCs
- 2.5.5.19 Laminates
- 2.5.5.20 Matrix Materials
- 2.5.5.21 Metal-Matrix Composites, MMCs
- 2.5.5.22 Nanocomposites
- 2.5.5.23 Plates
- 2.5.5.24 Prepregs
- 2.5.5.25 Profiles
- 2.5.5.26 Tubes
- 2.5.5.27 Sandwich Constructions
- 2.5.5.28 Foam Cores

- 2.5.5.29 Layer Composite Material
- 2.5.5.30 Self Reinforced Composites
- 2.5.5.31 Sheet Molding Compounds, SMCs
- 2.5.5.32 Rods
- 2.5.5.33 Structure Materials
- 2.5.5.34 Thermoplastic Composites
- 2.5.5.35 Particle Reinforced Materials
- 2.5.5.36 Honeycomb Cores
- 2.5.5.37 Natural Composites
- 2.5.5.38 Other Materials:

- 2.5.6 **Plastics**
- 2.5.6.1 Thermosets
- 2.5.6.2 Elastomers
- 2.5.6.3 Thermoplastics
- 2.5.6.4 Polyurethane
- 2.5.6.5 Plastics foams
- 2.5.6.6 Bio plastics
- 2.5.7 **Textile materials**
- 2.5.7.1 Fibres, yarns
- 2.5.7.2 Woven fabrics, laid webs, braids, knitted fabrics
- 2.5.7.3 Nonwovens
- 2.5.7.4 Coated textiles
- 2.5.7.5 Textile composites
- 2.5.7.6 Other textile materials
- 2.5.8 **Natural materials**
- 2.5.8.1 Wood
- 2.5.8.2 Vegetable fibres
- 2.5.8.3 Horn
- 2.5.8.4 Stone and Minerals
- 2.5.8.5 Cements
- 2.5.8.6 Pigments
- 2.5.8.7 Other nature materials
- 2.5.9 **Adaptive materials**
- 2.5.9.1 Adaptive structural systems
- 2.5.9.2 Thermal activatable materials
- 2.5.9.3 Electrical activatable materials
- 2.5.9.4 Magnetical activatable materials
- 2.5.9.5 Mechanical activatable materials
- 2.5.10 Other materials

3 Material Dimensions:

- 3.1 Components
- 3.2 Coatings
- 3.3 Fibers
- 3.4 Fabrics
- 3.5 Gradient Materials
- 3.6 Semi-Finished Parts
- 3.7 Components
- 3.8 Constructions
- 3.9 Laminates
- 3.10 Metal Matrix Composites
- 3.11 Nano Materials
- 3.12 Particles
- 3.13 Powders
- 3.14 Foams
- 3.15 Systems
- 3.16 Textiles
- 3.17 Composite Materials
- 3.18 Bulk Materials
- 3.19 Cellular Materials
- 3.20 Others

4 Processes

- 4.1 **Materials techniques**
- 4.1.1 Casting
- 4.1.2 Powder technology
- 4.1.3 Forming
- 4.1.4 Shaping/forming
- 4.1.5 Precision technology
- 4.1.6 Turning/milling
- 4.1.7 Materials technology, others

4.2 **Joining and Cutting**

- 4.2.1 Adhesion - Adhesive and sealants technology
- 4.2.1.1 Industrial adhesive materials
- 4.2.1.2 Industrial sealing materials
- 4.2.1.3 Adhesive surface pre-treatment
- 4.2.1.4 Mixing and proportioning
- 4.2.1.5 Application of adhesive
- 4.2.1.6 Final curing
- 4.2.1.7 Testing of bonding joints
- 4.2.1.8 Rheometry

- 4.2.1.9 Hybrid bonding technology
- 4.2.2 Welding, brazing, cutting
- 4.2.2.1 Welding
- 4.2.2.2 Brazing
- 4.2.2.3 Other joining technologies
- 4.2.2.4 Cutting
- 4.2.2.5 Machines for joining technologies
- 4.2.2.6 Machines for cutting technologies

4.3 **Heat treatment and vacuum technology**

- 4.3.1 Heat treatment
- 4.3.2 Furnaces
- 4.3.3 Heating elements
- 4.3.4 Sintering equipment
- 4.3.5 Hot isostatic presses
- 4.3.6 Vacuum systems
- 4.3.7 Refrigeration
- 4.3.8 Weathring
- 4.3.9 Techniques for environment simulation

4.4 **Properties changing**

4.5 **SURFACE technology Surface treatment Processes**

- 4.5.1.1 Aluminizing
- 4.5.1.2 Tempering
- 4.5.1.3 Anodizing
- 4.5.1.4 Carburizing
- 4.5.1.5 Pickling
- 4.5.1.6 Browning
- 4.5.1.7 Brushing
- 4.5.1.8 Chromating
- 4.5.1.9 Electropolishing
- 4.5.1.10 Anodic Oxidation
- 4.5.1.11 Enameling
- 4.5.1.12 Degreasing
- 4.5.1.13 Hot-Dip Aluminizing
- 4.5.1.14 Zinc Coating
- 4.5.1.15 Fire Tinning
- 4.5.1.16 Flame-Spraying
- 4.5.1.17 Electroplating
- 4.5.1.18 Electrolytic treatment
- 4.5.1.19 Vapor Deposition
- 4.5.1.20 Annealing
- 4.5.1.21 Hardening
- 4.5.1.22 Inchromation
- 4.5.1.23 Lacquering
- 4.5.1.24 Laser surface treatment
- 4.5.1.25 Arc Spraying
- 4.5.1.26 toll coating
- 4.5.1.27 Mechanical surface treatment
- 4.5.1.28 Metal Spraying
- 4.5.1.29 Wet Lacquering
- 4.5.1.30 Nitrating, carbonizing
- 4.5.1.31 Surface pre-treatment
- 4.5.1.32 Oxidating
- 4.5.1.33 Passivation
- 4.5.1.34 Phosphating
- 4.5.1.35 Plasma Spraying
- 4.5.1.36 Cladding
- 4.5.1.37 Polishing
- 4.5.1.38 Stamping
- 4.5.1.39 Powder Spraying
- 4.5.1.40 PVD and CVD finishing
- 4.5.1.41 Grinding
- 4.5.1.42 Hot-Dip Metal Coating
- 4.5.1.43 Sherardizing
- 4.5.1.44 Abrasive Jet Machining
- 4.5.1.45 Structurizing
- 4.5.1.46 Dipping
- 4.5.1.47 Thermal spraying
- 4.5.1.48 Gold Plating
- 4.5.1.49 Zinc Coating
- 4.5.1.50 Roll Coating
- 4.5.1.51 Whirl Sintering
- 4.5.1.52 Other surface technologies
- 4.5.2 **Nano and Micro Technology**
- 4.5.2.1 Precision tools
- 4.5.2.2 Micromotors
- 4.5.2.3 Microreactors
- 4.5.2.4 Microcomponents
- 4.5.2.5 Nano structuring
- 4.5.2.6 Microstructuring

- 4.5.2.8 Self organization
- 4.5.2.9 Bionics
- 4.5.2.10 Other processes
- 4.6 COMPOSITES Technology:**
- 4.6.1 Autoclave
- 4.6.2 Dispensing Machines
- 4.6.3 Filament Winding Techniques
- 4.6.4 Moulds
- 4.6.5 Joining Techniques
- 4.6.6 Casting Machines
- 4.6.7 Hand Lay-up Techniques
- 4.6.8 High Pressure Forming Techniques
- 4.6.9 Impregnation Machines and Techniques
- 4.6.10 Infiltration Techniques
- 4.6.11 Injection Machines
- 4.6.12 Low Temperature Prepreg Moulding
- 4.6.13 Machines for Coating Techniques
- 4.6.14 Machines for RTM Techniques
- 4.6.15 Preforming Machines
- 4.6.16 Mixing Machines
- 4.6.17 Ovens
- 4.6.18 Polishing Machines
- 4.6.19 Prepreg Moulding Techniques
- 4.6.20 Presses and Pressing Techniques
- 4.6.21 Pultrusion Machines
- 4.6.22 Cleaning Machines and Techniques
- 4.6.23 Resin Film Infusion Techniques
- 4.6.24 Resin Transfer Moulding Techniques
- 4.6.25 RIFT Techniques
- 4.6.26 RTP Techniques
- 4.6.27 SCRIMP Techniques
- 4.6.28 SMC Techniques
- 4.6.29 Spray Lay-up Techniques
- 4.6.30 Injection Moulding Machines
- 4.6.31 Spray Forming
- 4.6.32 TRE Techniques
- 4.6.33 Cutting Machines and Techniques
- 4.6.34 Drying Machines
- 4.6.35 Transforming Machines
- 4.6.36 Vacuum Forming
- 4.6.37 Vacuum Technologies
- 4.6.38 VARTM Techniques
- 4.6.39 Wet lay-up Techniques
- 4.6.40 Winding Machines
- 4.6.41 Other processes
- 4.7 Product development / Design /Software**
- 4.7.1 Industrial design
- 4.7.2 Computer Aided Engineering
- 4.7.3 Computer Aided Design
- 4.7.4 Computer Aided Manufacturing
- 4.7.5 Product Lifecycle Management
- 4.7.6 Product Data Management
- 4.7.7 ERP
- 4.7.8 Pattern making
- 4.7.9 Reverse engineering (3D -Scanning)
- 4.7.10 Virtual prototyping (Digital mock up)
- 4.7.11 Simulation programs
- 4.7.12 Rapid prototyping
- 4.7.13 Rapid tooling
- 4.7.14 Moldmaking and tooling
- 4.7.15 Reference materials
- 4.7.16 EDM - Engineering database management
- 4.7.17 System consulting
- 4.7.18 Internet marketplaces / e procurement
- 4.7.19 C-Technologies
- 4.7.20 Design Methods
- 4.7.21 Modelling Procedures
- 4.7.22 Simulation
- 4.7.23 Others
- 4.8 Adaptronic**
- 4.8.1 Structural systems

- 4.8.2 Control technique
- 4.8.3 Sensoric
- 4.8.4 Actuatoric
- 4.8.5 Vibration and sonic minimization
- 4.8.6 Positioning
- 4.8.7 Form adjustment
- 5 Materials testing and measurement**
- 5.1 Mechanical testing**
- 5.1.1 Tension and compression tests
- 5.1.2 Bending tests
- 5.1.3 Vibration testing
- 5.1.4 Hardness measurement
- 5.1.5 Wear testing
- 5.1.6 Metallographic examination
- 5.1.7 Chemical analysis
- 5.1.8 Fracture testing
- 5.1.9 Corrosion testing
- 5.1.10 Weighing technique
- 5.1.11 Other methods of mechanical testing
- 5.2 Non-destructive testing**
- 5.2.1 Ultrasonic testing
- 5.2.2 Sonic emission testing/acoustic testing
- 5.2.3 Eddy-current testing
- 5.2.4 Dilatometry
- 5.2.5 Laser inspection
- 5.2.6 X-ray testing
- 5.2.7 Temperature measurement
- 5.2.8 Industrial computer tomography
- 5.2.9 Scanning probe microscopy
- 5.2.10 Gamma-ray inspection
- 5.2.11 Magnetic crack detection
- 5.2.12 Dey penetration method
- 5.2.13 Other methods of non-destructive testing
- 5.3 Optical methods and metalography**
- 5.3.1 Optical microscope
- 5.3.2 Electron microscopy
- 5.3.3 X-ray diffraction analysis
- 5.3.4 X-ray fluorescence analysis
- 5.3.5 Spectrography
- 5.3.6 Microwave metrology
- 5.3.7 Infra-red metrology
- 5.3.8 Light wave metrology
- 5.3.9 Image processing
- 5.3.10 Endoscopy
- 5.3.11 Coordinate measurement
- 5.3.12 Microstructure analysis
- 5.3.13 Other methods of optical analysis
- 5.3.14 Chemical Analysis
- 5.3.15 Physical Analysis
- 5.4 Thermal Analysis**
- 5.4.1 Differential scanning calorimetry . DSC
- 5.4.2 Thermogravimetry - TGA
- 5.4.3 Thermomechanical/Dynamic mechanical analysis - TMA, DIL, DMA
- 5.4.4 Thermal diffusivity/Thermal conductivity
- 5.4.5 Gas analysis - Thermal analysis
- 5.4.6 Moisture analysis
- 5.4.7 Other methods of thermal analysis
- 6 Characteristics**
- 6.1 adaptive
- 6.2 amorphous
- 6.3 bio-compatible
- 6.4 bio-mimetic
- 6.5 conductive
- 6.6 high-strength
- 6.7 heat-resistant
- 6.8 non-corrosive
- 6.9 lightweight
- 6.10 light-transmitting
- 6.11 magnetic
- 6.12 nanophase
- 6.13 photocatalytic

- 6.14 porous
- 6.15 switchable
- 6.16 super-hard
- 6.17 transparent
- 6.18 wear-resistant
- 6.19 recyclable
- 6.20 super-conducting
- 6.21 electrical insulating / conducting
- 6.22 acustical damping
- 6.23 mechanical damping
- 6.24 piezo-electric
- 6.25 alloyed
- 6.26 ultra-light
- 6.27 high-stiff
- 6.28 bending stiff
- 6.29 translucent
- 6.30 pigmented
- 6.31 oxidation resistant
- 6.32 fire resistant, refractory
- 6.33 lightfast
- 6.34 laminated
- 6.35 printable
- 6.36 colourfast
- 6.37 abrasion-resistant
- 6.38 lucent
- 6.39 mattfinished
- 6.40 impragnated
- 6.41 soil-resisting
- 6.42 scratch resistant
- 6.43 other properties
- 7 Services**
- 7.1 Contract research
- 7.2 Contract production
- 7.3 Contract analysis
- 7.4 Recycling
- 7.5 Data acquisition
- 7.6 R&D joint ventures
- 7.7 Testing laboratories
- 7.8 Expert assessments
- 7.9 Patents
- 7.10 University research
- 7.11 Technology transfer
- 7.12 Innovation consulting service
- 7.13 Consulting service
- 7.14 Finance/Venture Capital
- 7.15 Trade/specialist literature
- 7.16 Siting policy
- 7.17 Materials database
- 7.18 R&D Clusters
- 7.19 Engineering Firms
- 7.20 Interest Groups
- 7.21 Networks
- 7.22 Product and Industrial Designers
- 7.23 Associations