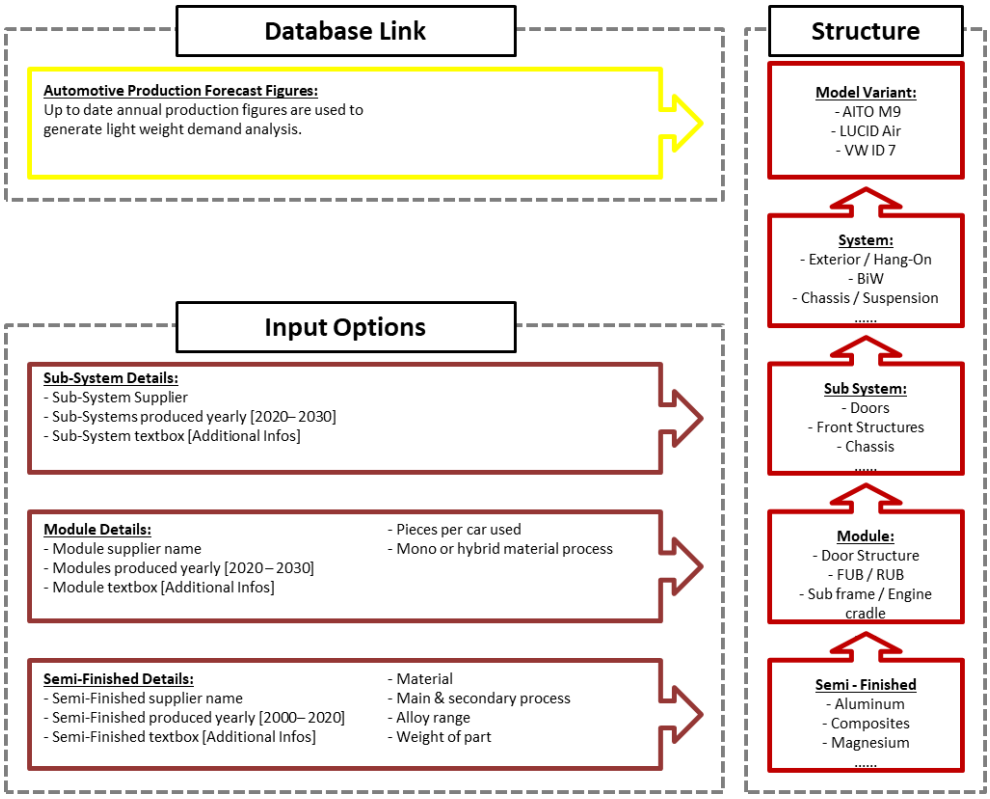
ALUMAG® GLOBAL AUTOMOTIVE SYSTEMS DATABASE [ASDB]

INTRODUCTION

ALUMAG® as a provider of automotive forecasting, studies, research, and databases offers custom made market intelligence. The Automotive Systems Database [ASDB] was created in 2000, causally for any automotive systems, components and parts.

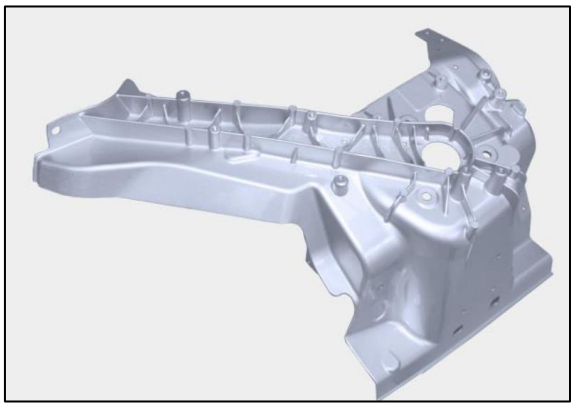
The ASDB is connected and refers to an automotive forecast, incl model lines, model codes, platforms and brands.

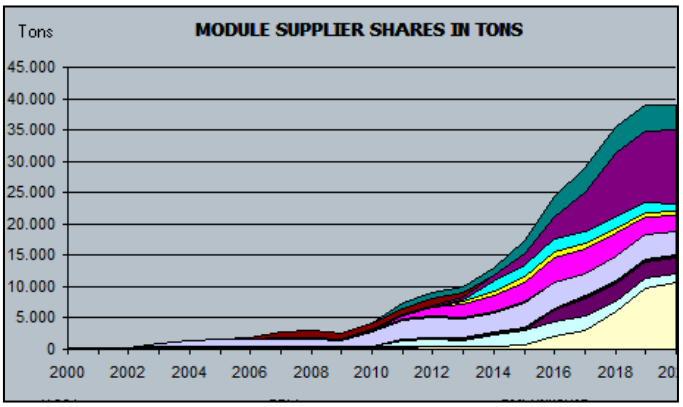
Material wise, the focus is on aluminum, composites and magnesium. On demand, steel could be added, too.



Every main / common forming process is listed to select and allocate to parts / modules.

A LOOK BACK : 20YEARS PENERATION OF AL HPDC SHOCK TOWERS, EUROPE





25 YEARS OF ALUMAG® INSIDER MARKET KNOWLEDGE AND INTELLIGENCE

The 25 year "bottom-up" instead of "top-down" analyzes of the past, present and future ensures a targeted and more reliable outlook on the corporate orientation of ALUMAG® clients.
Originally, the ASDB was ACCESS programmed. Due to client requests, ALUMAG® has started in 2020, to convert the very much complex database in EXCEL with embedded pic links in Dropbox. The next step is SQL and SQLPostgen with AI in a closed data environment for client users.

The ASDD is the supply chain market intel tool, concentrated about light weighting automotive structures with firsthand expertise.

FIRST DATA GATHERING AND VALIDATION, THEN DATA BASE INPUT

GROUP OEM	BRAND	PLATFORM	MODEL	COMPONENT	WEIGHT NET [KG]	ALLOY	HEAT TREATMENT	CASTER/SUPPLIER 1	CASTER/SUPPLIER 2	COMPONENT PIC
小鹏 XPENG	XPENG	H93	X9	RUB	66	JDA1b	F	HONGTU		
小鹏 XPENG	XPENG	H93	X9	柱 CD Pillar		JDA1b	F	HONGTU		
小鹏 XPENG	XPENG	F57	P7+	RUB	56	JDA1b	F	HONGTU		
小鹏 XPENG	XPENG	F57	P7+	FUB		JDA1b	F	HONGTU		
东风日产 DF-NISSAN	NISSAN	CTC01A	TBD	RUB	45,5	TBD	F	~		
东风日产 DF-NISSAN	NISSAN	CTC01A	TBD	FUB	57,09	TBD	F	~		
江淮 JAC	MAEXTRO	YC-2233	S800	RUB	52,7	RGA6	F	美利信/MILLISON		
蔚来 NIO	NIO	NT2	ET5/ES6	RUB	34,194	C611	F	文灿/WENCAN	美利信/MILLISON	
一汽 FAW	HONGQI	W264	EHS9/E802	RUB	55,79		F	FAW		

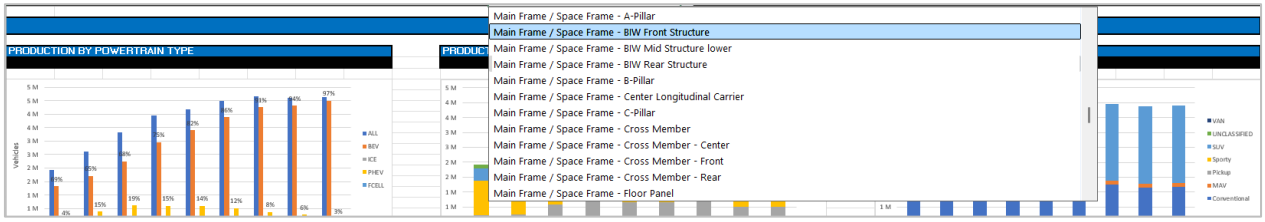
ALUMAG®'s absolute strength, unique selling point and expertise lie in global vehicle structures. The focus is on:

1. BiW / Body in White : Longitudinal members [carriers or rails], Suspension domes [Strut, Shock towers], FUB / Front Underbody, A- / B- / C- pillars, Cross members, RUB / Rear Underbody, Integrated castings, Side collision rocker [members or rails].
2. CCB / Cross Car Beam / Instrument Panel Carrier.
3. HV Battery Trays & Frames [closures or pack housing].
4. C/S [Chassis/Suspension] : Suspension link- / control arms, Knuckles/wheel carrier, Sub frames / Cradles / e-axle Cages.
5. Exterior / Hang-on parts : Hood & bonnet, lid & tailgate, Roof railing, Door inner & outer structures, Upper, main and lower CMS [Crash Management System] incl. bumper beams and crash boxes [crush boxes].

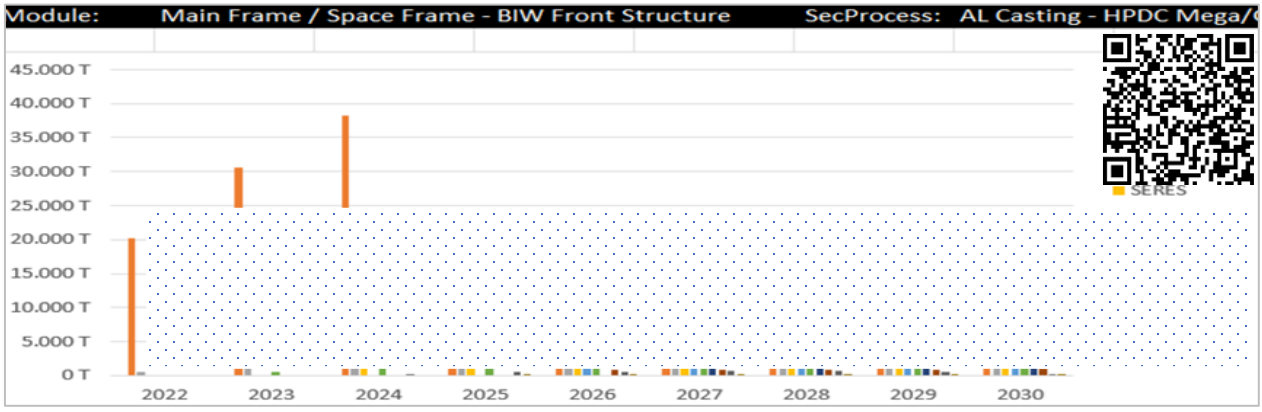
ALUMAG® ASDB ALMOST UNLIMITED DATA ENQUIRES WITH VISUALIZATIONS

Model Variant - LMC	Platform	Group	Brand	Region	Powertrain Type	System	System Penetration	System Supplier	System Picture - Car Mod	System Picture - Platform	Module
NIO - ET5 / ET5T - N/K - NT2.0 - PV - BEV	NT2.0	NIO	NIO	AS	BEV	Main Frame / Space Frame	100%	NIO	Pictures	No Picture	Main Frame / Space Frame - BIW Rear
NIO - ET5 / ET5T - N/K - NT2.0 - PV - BEV	NT2.0	NIO	NIO	AS	BEV	Main Frame / Space Frame	100%	NIO	Pictures	No Picture	Main Frame / Space Frame - BIW Rear
NIO - ET5 / ET5T - N/K - NT2.0 - PV - BEV	NT2.0	NIO	NIO	AS	BEV	Main Frame / Space Frame	100%	NIO	Pictures	No Picture	Main Frame / Space Frame - BIW Rear
NIO - ET5 II / ET5T II - N/K - NT3.0 - PV -	NT3.0	NIO	NIO	AS	BEV	Main Frame / Space Frame	100%	NIO		No Picture	Main Frame / Space Frame - BIW Rear
NIO - ET5 II / ET5T II - N/K - NT3.0 - PV -	NT3.0	NIO	NIO	AS	BEV	Main Frame / Space Frame	100%	NIO		No Picture	Main Frame / Space Frame - BIW Rear
NIO - ET5 II / ET5T II - N/K - NT3.0 - PV -	NT3.0	NIO	NIO	AS	BEV	Main Frame / Space Frame	100%	NIO		No Picture	Main Frame / Space Frame - BIW Rear
TESLA - Model 3 - HIGHLAND - Gen 3 - PV	Gen 3	TESLA	TESLA	AS	BEV	Main Frame / Space Frame	100%	TESLA		No Picture	Main Frame / Space Frame - BIW Front
TESLA - Model 3 - HIGHLAND - Gen 3 - PV	Gen 3	TESLA	TESLA	AS	BEV	Main Frame / Space Frame	100%	TESLA		No Picture	Main Frame / Space Frame - BIW Rear
TESLA - Model Y - E41 - Gen 4 - PV - BEV -	Gen 4	TESLA	TESLA	AS	BEV	Main Frame / Space Frame	100%	TESLA		No Picture	Main Frame / Space Frame - BIW Rear
TESLA - Model Y - NV56 - Gen 3 - PV -	Gen 3	TESLA	TESLA	AS	BEV	Main Frame / Space Frame	100%	TESLA		No Picture	Main Frame / Space Frame - BIW Front
TESLA - Model Y - NV56 - Gen 3 - PV -	Gen 3	TESLA	TESLA	AS	BEV	Main Frame / Space Frame	100%	TESLA		No Picture	Main Frame / Space Frame - BIW Rear
TESLA - Model Y - NV56 - Gen 3 - PV -	Gen 3	TESLA	TESLA	EU	BEV	Main Frame / Space Frame	100%	TESLA		No Picture	Main Frame / Space Frame - BIW Front
TESLA - Model Y - NV56 - Gen 3 - PV -	Gen 3	TESLA	TESLA	EU	BEV	Main Frame / Space Frame	100%	TESLA		No Picture	Main Frame / Space Frame - BIW Rear
TESLA - Model Y - NV56 - Gen 3 - PV -	Gen 3	TESLA	TESLA	NA	BEV	Main Frame / Space Frame	100%	TESLA		No Picture	Main Frame / Space Frame - BIW Front
TESLA - Model Y - NV56 - Gen 3 - PV -	Gen 3	TESLA	TESLA	NA	BEV	Main Frame / Space Frame	100%	TESLA		No Picture	Main Frame / Space Frame - BIW Front
XIAOMI - N3 - N3 / Kunlun - MODENA -	MODENA	XIAOMI	XIAOMI	AS	PHEV	Main Frame / Space Frame	100%	XIAOMI		No Picture	Main Frame / Space Frame - BIW Rear
XIAOMI - N3 II - - MODENA NG - PV -	MODENA NG	XIAOMI	XIAOMI	AS	PHEV	Main Frame / Space Frame	100%	XIAOMI		No Picture	Main Frame / Space Frame - BIW Rear
XIAOMI - SU7 - Modenat / MS11 -	MODENA	XIAOMI	XIAOMI	AS	BEV	Main Frame / Space Frame	100%	XIAOMI	Pictures	No Picture	Main Frame / Space Frame - BIW Rear
XIAOMI - SU7 II - - MODENA NG - PV -	MODENA NG	XIAOMI	XIAOMI	AS	BEV	Main Frame / Space Frame	100%	XIAOMI		No Picture	Main Frame / Space Frame - BIW Rear
XIAOMI - YU7 - Lemang - MODENA - PV -	MODENA	XIAOMI	XIAOMI	AS	BEV	Main Frame / Space Frame	100%	XIAOMI		No Picture	Main Frame / Space Frame - BIW Rear
XIAOMI - YU7 II - Lemang - MODENA NG -	MODENA NG	XIAOMI	XIAOMI	AS	BEV	Main Frame / Space Frame	100%	XIAOMI		No Picture	Main Frame / Space Frame - BIW Rear

The data, which have been typed-in the ASDB are up-to-date, secure, broad and deep, the evaluations and forecasts are accordingly.
NOTE: The ASDS is maintained weekly, but never complete. For nearly every custom-made market intel, data and pics need to be added.



The ASDB provides hundreds of defined applications. ALUMAG® is focused mainly on BIW , NEV , HV Battery Trays / Frames , Chassis / Suspension , Hang-on and CCB .



Data visualization by : China, FUB [Front Underbody], HPDC by MEGA/GIGA Presse

ALUMAG® GLOBAL ASDB BENEFITS :

1. Demand & outlook by applied materials, aluminum, carbon composite, magnesium, [steel].
2. Demand & outlook by core processes, cast, extruded, rolled, forged, …
3. Demand & outlook by OEM groups, brands, platforms, models.
4. Demand & outlook by continents and country.
5. Demand & outlook by applications.
6. Supplier market shares.
7. Overview by individual filtered criteria and dependencies.
8. Detection & validation of market movements and trends, frontiers and follower
9. Determination of the company's position and its orientation towards market trends and competitors.

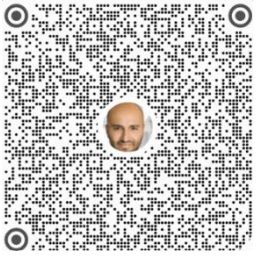
ALUMAG® GLOBAL FDB DESCRIPTION & CONTENT

1. OEM groups, Plants, Brands, Platforms, Segments, Propulsion shares, Models
2. Applications structured by Systems, Sub-systems, Modules.
3. Modules [Parts], partly with pics, described by Supplier[s], Weight, Materials, Processes
4. Optional module [parts] cost calculations [materials cost., weight, process cost]

CUSTOMIZED PRICING

Please contact one of the following ALUMAG® responsible

CANER TUR **JOST DEU** **RICARDO MEX** **ROBERTO USA**



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ALUMAG® GENERAL TERMS & CONDITIONS

"ALUMAG® Automotive Marketing GmbH" & "ALUMAG® Automotive LLC"

Services and Publications from ALUMAG® ["ALUMAG® Automotive Marketing GmbH" & "ALUMAG® Automotive LLC"] are made available only on the following terms and conditions, which form part of every ALUMAG® agreement.

1. GENERAL TERMS AND CONDITIONS / SCOPE

1.1 All legal transactions between the Buyer and ALUMAG® - ["ALUMAG® Automotive Marketing GmbH" & "ALUMAG® Automotive LLC", named ALUMAG® thereafter] shall be subject to these General Terms and Conditions exclusively. The version valid at the time the contract is concluded shall be applicable.

1.2 These General Terms and Conditions shall also apply to any future contractual relationships even if these General Terms and Conditions are not expressly referred to in collateral contracts.

1.3 Any conflicting General Terms and Conditions on the part of the Buyer shall be invalid unless they have been explicitly accepted in writing by ALUMAG®.

1.4 If any provision of these General Terms and Conditions is or becomes invalid, the other provisions and any contracts concluded pursuant to these provisions shall not be affected thereby. The invalid provision shall be replaced by a provision which best corresponds to the intention and economic purpose of the invalid provision.

2. BUYERS

2.1 ALUMAG® sells its "Services" such as "Business/Market Development" and "Publications" such as e. g. "Global Foundry Database" or "Automotive Systems Database" only to registered companies on a B2B basis. ["Service/s and "Publication/s" named "Product/s thereafter]

2.2 ALUMAG® does not sell to consumers and thus all consumer protection laws are not valid.

3. PRICE / TAXES / FEES

3.1 All prices quoted by ALUMAG® do not include sales tax [VAT]. They are valid only for the present order.

3.2 The quoted prices are only valid for the Service and Publication, in its existing form [a SOW [scope of work] or TOC [table of content] is provided for each. The prices do not include any additional services [e.g. any consultancy by telephone or in person, training, etc.]. All such services will be charged separately according to the daily or hourly fee of ALUMAG® at the time of the purchase.

4. PAYMENT / INVOICES

4.1 Generally, 100 % pre-payment or individually agreed terms of pre-payment is required to obtain any ALUMAG® Services and Publication.

4.2 The invoices submitted by the seller are payable at the latest 10 days from date of invoice without any deductions and free of charge. For partial invoices, the terms of payment for the entire order are obtained analogously.

4.3 ALUMAG® may raise separate invoices for different ALUMAG® Services and Publications or for annual payments where applicable.

4.4 ALUMAG® is entitled to send invoices electronically. The Buyer agrees explicitly to accept invoices transmitted electronically by ALUMAG®.

4.5 Payment on the agreed-upon dates is an essential condition for delivery and for fulfilment of the contract by ALUMAG®. Failure on the part of the Buyer to comply with the agreed payment schedule entitles ALUMAG® to discontinue current work and to withdraw from the contract. All costs connected therewith are to be borne by the Buyer. In case of delayed payment, interest in payment in arrears will be charged at customary bank rates.

5. DELIVERY DATES

5.1 In accordance with 4.1 ALUMAG® will execute / share Services and send Publications only after the full amount of the invoice was credited to the ALUMAG® bank account.

5.2 All delivery dates are approximate and are based on the current project schedule of ALUMAG® at the time of the purchase. As the project schedule can change daily, Buyers are advised that delayed payment on the part of the Buyer may result in longer delivery times. Delivery times are only confirmed by ALUMAG® after receipt of the payment.

5.3 In the case of orders that encompass several Services and/or Publications, ALUMAG® is entitled to make partial deliveries and to submit partial invoices.

6. USER RESTRICTIONS

6.1 Buyers shall not copy, transmit or disclose any ALUMAG® Publication, whether in print or electronic or other form, or any information therein. Excluded from this term are separately agreed publications, which require a written agreement between ALUMAG®, Buyer and potentially a third party. All rights in ALUMAG® Publications are reserved to ALUMAG®.

6.2 Buyers shall use all information contained in any ALUMAG® Services and Publication solely for their own internal business purposes. Buyers shall not disclose any such information [also parts of the information] to any other person and shall take all reasonable measures to ensure their security.

6.3 Buyers shall allow access to all ALUMAG® Services and Publications [in any printed or electronic format] only to management and executives of the Buyer. If a manager and/or executive leaves the Buyer's company, the Buyer must ensure that no copy of an ALUMAG® Service, Publication or parts thereof are transferred to a successor.

6.4 All ALUMAG® shared Service information and Publications shell only be used within the premises of the Buyer's office, respectively Buyer's electronic devices. The usage of any Service information or Publication or parts thereof in branch offices or associated companies of the Buyer requires the written approval of ALUMAG®.

7. CANCELLATION BY THE BUYER

7.1 Cancellation by the Buyer is only possible before the Services and Publications were submitted to the Buyer with the written agreement of ALUMAG®. If ALUMAG® agrees to the cancellation, it is entitled to charge not only for services rendered and accrued costs, but also a cancellation fee that represents 30% of the value of the total order not yet settled.

7.2 After the Publication was made available to the Buyer in printed, electronic or any other form, the Buyer cannot cancel the order or claim a refund of the purchasing price.

8. TERM & TERMINATION

8.1 The term of a Product license will be set forth in the applicable Order Form, and - except as it relates to One-Time Licenses - will automatically renew for additional one-year terms unless terminated as provided in Section 8.2 of this Agreement. The term of this Agreement shall continue for the term of the Order Form.

8.2 Either Party may terminate an Order Form if: [a] the Party gives written notice to the other Party of its election to terminate at least 30 days before the end of the initial term or renewal term of the Order Form for Products licensed on a term basis [b] the other Party commits a breach of any material term or condition of this Agreement and does not cure such breach within 30 days of written notice; or [c] the other Party's assets are transferred to an assignee for the benefit of creditors, to a receiver or to a trustee in bankruptcy, a proceeding is commenced by or against the other Party for relief under bankruptcy or similar laws and such proceeding is not dismissed within 60 days, or the other Party is adjudged bankrupt.

8.3 Any termination does not relieve either Party of any liability incurred prior to such termination, or for Client's payment for unaffected Products. Upon the termination of this Agreement, or any Order Form; all Fees and Expenses owed by Client through the date of termination automatically and immediately become due and payable.

8.4 Upon any expiration or other termination of an Order Form, all licenses granted under same immediately will terminate. All terms and conditions of the Agreement will continue to apply to any Order Forms that have not been so terminated.

8.5 Effect of Term or Termination. Unless otherwise provided in the Agreement, Client may not permanently retain Product, including [a] in any file or on any hard drive, server or other form of memory; or [b] in any printed form. Client represents and warrants that upon any expiration or termination of this Agreement or an Order Form, as applicable, Client immediately will: [x] discontinue all use of Product[s] associated with any expired or terminated Order Forms; [y] destroy any items relating to Products [including but not limited to data, software, and Documentation] and purge any Product data from all electronic media; and [z] upon request from ALUMAG® provide written certification to ALUMAG® that Client has complied with this paragraph.

9. WARRANTIES, LIABILITY

9.1 ALUMAG® has made every reasonable effort to ensure that the information presented within its Services and Publications is accurate and was obtained from reliable sources, but it may include errors or inaccuracies. The reader is advised that the material contained within the Service information and Publications is for general information purpose only. In no event shall ALUMAG® or its staff be liable or responsible to any person for any special, indirect or consequential loss, damage, or injury, resulting from the use of the information contained in any Service information and Publications of the company in printed, electronic or any other format, unless caused by gross negligence or intentional misconduct.

9.2 The information within the ALUMAG® Service and Publications is provided "as is" and without warranty of any kind. It is the Buyer's responsibility to verify the accuracy, completeness and fitness of all details, services and other information provided on the website relative to the Buyer's purpose, before acting upon them.

10. FINAL PROVISIONS

10.1 Modifications of and amendments to these General Terms and Conditions shall be made in writing.

10.2 If not otherwise agreed, the statutory regulations applicable to registered merchants are exclusively those in force under the law of Germany. This is the case also when the order is carried out outside of Germany. In case of conflict, it is agreed that only the responsible local court in the ALUMAG® place of business has jurisdiction.

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