

DISCOVER OUR ANALYSIS STEPS

Analysis Steps	Description	Benefit	Level	Access
Fail-Safe	A material fails stably in a controlled manner if its load test curve is complete and steady. With the right testing technology, this behavior can be measured.	Its aim is the recording of a stable steady load–displacement diagram for fracture parameter generation and cohesive zone modeling.	basic	free
Gap & Surface	Adhesive and surface analysis evaluates the condition of the surface and adhesive gap for adhesive reliability and safety.	The identification of surface & gap influences can be used to optimize the bonding performance	premium	bookable
Size & Scale	Size-effect analysis is the effort to obtain sample-size independence regarding the influence of technical parameters, such as strength or fracture toughness.	The identification of size-related influences can be used to optimize product performance regarding their installation size.	premium	bookable
Structural Safety	Here, the generation of authentic safety and performance metrics for comparative analysis is the aim.	Enriching information value of the technical data sheets (TDS) via strong metrics and benchmarks for best-practice analysis.	premium	bookable
Damage-Effects	The aim of the damage effect analysis is the identification of failure mechanisms and crack shielding effects by fractography of the ruptured specimen.	This is especially important to isolate and, if necessary, contain damaging effects for product and application optimization.	premium	bookable
Batch-Quality Evaluation	The batch quality is subject to certain fluctuations, which have an impact on the product quality. It is therefore important to filter out and trace outliers of trends.	By investigating quality variations in the batches, it is possible to isolate defects as well as anomalies avoiding future complaints.	premium	bookable
Value Analysis	Value analysis is the cost-based evaluation of materials considering their technical performance by two metrics, called "safety factor" & "safety premium".	The major advantage is the inclusion of material safety into pricing making it a key figure of the process. This is unique and extraordinary supportive.	premium	bookable
Cohesive-Zone-Modeling	The target of cohesive-zone modeling is the generation of data sets in terms of "material laws" for numeric simulations via finite element modeling (FEM).	The cohesive zone model is practicable to validate experimental data numerically and supporting CAD/CAM.	premium	bookable
Best-Practice Rating	The preparation and presentation of sensitive material data is crucial. Our rating reports supply clarity and information value for the decision maker.	The benefit of these reports is the access to exclusive evaluations including competitor's products and alternative material classes.	premium	bookable

