



ULTIMATE insulation solutions.
High performance for high temperatures.

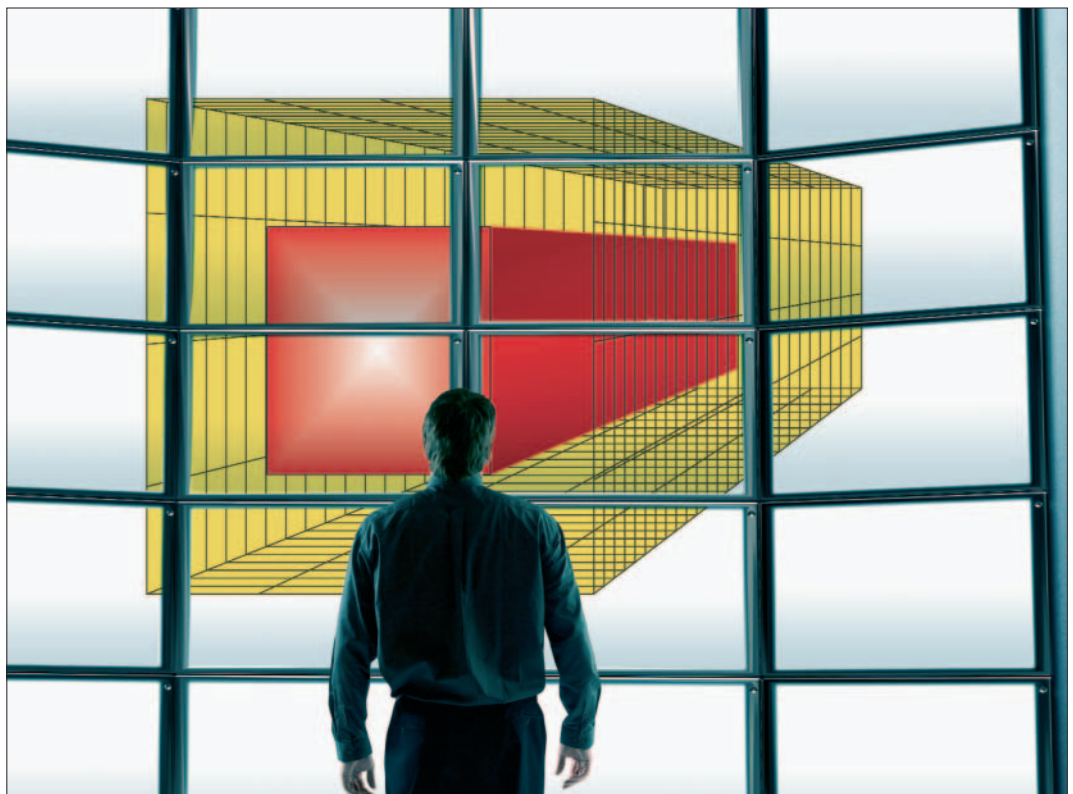


Thinking insulation fast forward.



For high temperature applications, thermal insulation is becoming increasingly important. For obvious reasons. The steady rise in energy prices has long turned a valid environmental criterion into a crucial success factor in competition. ULTIMATE provides the optimal answer. The new, ultralight

high-performance insulation material from ISOVER, the world market leader for insulation solutions, combines the properties of conventional thermal insulation materials with excellent fire and sound protection. This is 20 years of competence and innovation, bundled in a package.



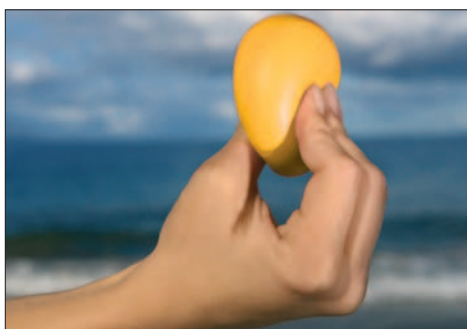
*Environmental protection
with every fiber:
ULTIMATE is biosoluble
and is 100 % recyclable.*

With ULTIMATE you save so much more.

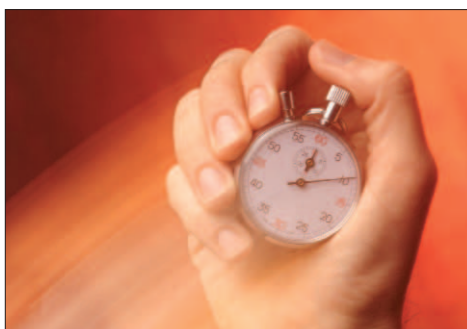
An excellent balance in every respect: ULTIMATE's thermal performance considerably raises energy efficiency while on the other hand significantly lowering operating costs and CO₂ emissions. As ULTIMATE comes with an exceptionally lightweight and compressed packaging, it not only requires much less transportation and storage capacity. It also allows more convenient, faster and thus cost-saving installation on site. Save money, time, space and nature – thanks to ISOVER know-how.



*ULTIMATE: Higher efficiency,
lower costs.*



*60 % space savings thanks to
an extremely compressible fiber
structure.*



*More efficient transportation,
faster installation.
Time is money.*

ULTIMATE. The new standard for top performance.

The latest insulation innovation from ISOVER features a unique high-performance profile. It combines highest insulation per-

formance with cost efficiency and easy handling. The all-in-one solution to meet your demands.



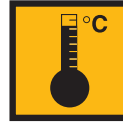
Excellent thermal insulation



Effective fire protection



Fast installation



Maximum service temperature



Cost-effective solutions



Maximum compressibility



Comfortable installation



Active environmental protection



Unique lightness



Optimal acoustic performance



Maximum flexibility



Thin solutions



The formula for ULTIMATE insulation in high temperature applications:



All strengths. One product. Perfectly combined by ISOVER.



Thermal insulation: Even with permanently high service temperatures up to 660°C, ULTIMATE offers superior protection from heat. And since ULTIMATE is a slug-free, 100 % conversion of raw material into efficient insulation, it also guarantees much better thermal insulation values for lightweight products.



Fast installation: ULTIMATE combines an extremely low weight with maximum flexibility and compressibility. This facilitates transportation and storage on site and even allows work in confined spaces. And when it comes to installation, this is an unbeatably fast, easy and comfortable process.



Cost-efficient solutions: The advantages offered by ULTIMATE start with excellent logistics, but do not stop after the quick and low-cost installation. Once in place, the material's top performance reduces the energy losses that are typically found with high temperature applications. Around the clock. And thus paying off a bit more every day.



The essence of thermal performance: ULTIMATE.



When efficient insulation needs to meet the highest demands, ULTIMATE comes into play. Due to its outstanding lambda values, ULTIMATE achieves a much higher insulation effect with distinctly less material than other commercially available mineral wool products. And the higher the operation temperature, the greater the performance lead. ULTIMATE – more efficiency for more performance.

3 times better: λ (T) by ULTIMATE

Up to 45 % reduced weight: ULTIMATE offers the same performance as conventional insulation products at up to 45 % lower weight. (Fig.1)

Up to 44 % better performance: Thanks to its excellent lambda value, ULTIMATE's overall insulation performance is superior to that of conventional solutions. ULTIMATE: 100 % the right choice. (Fig.2)

Up to 30 % reduced thickness: Get the same insulation performance while benefiting from a distinctly lower material thickness. (Fig.3)

The symbol that saves you money: λ (T)

Thermal conductivity, λ (T) or k (T), is the property of a material that indicates its ability to conduct heat. It is used primarily in Fourier's Law of heat conduction.

It is defined as the amount of heat, ΔQ , transferred over time Δt through a thickness L , in a direction normal to a surface area A , due to a temperature difference ΔT , under steady state conditions and when the heat transfer is dependent only on the temperature gradient.

Typical units are SI: $W/(m \cdot K)$ and English units: $Btu \cdot ft / (h \cdot ft^2 \cdot ^\circ F)$. To convert between the two, use the relation $1 Btu \cdot ft / (h \cdot ft^2 \cdot ^\circ F) = 1.730735 W/(m \cdot K)$.

When dealing with building structures, thermal resistance or R-value means what is also described as thermal insulance. For materials installed in series, these thermal resistances (unlike conductances) can simply be added to indicate the thermal resistance of the structure as a whole. Typical SI units of thermal resistance (R value) = λ / L , are $K \cdot m^2 \cdot W^{-1}$.

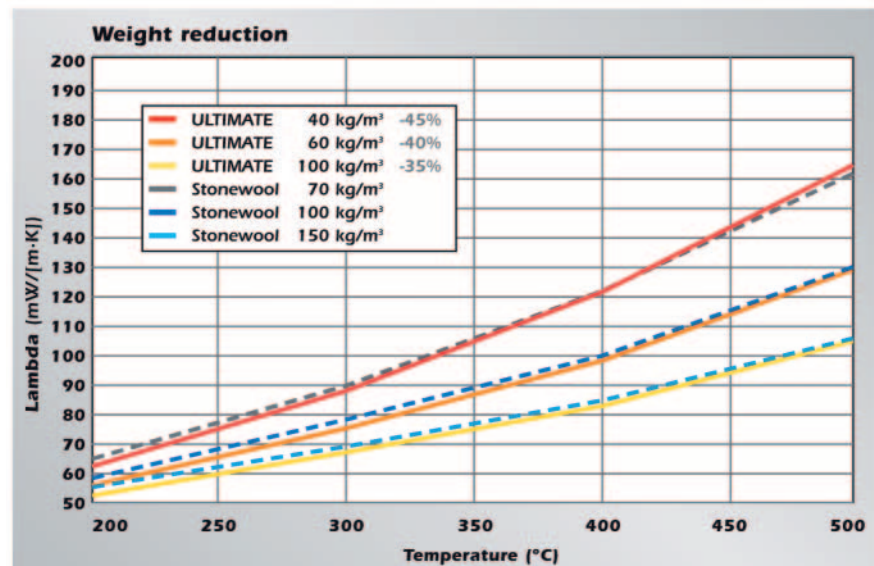


Fig.1: Weight reduction

Increase insulation.

Decrease energy spending.



Energy losses are rapidly becoming a most critical cost factor for the economic viability of high temperature applications. For this reason, ULTIMATE offers an insulation performance that is superior to that of conventional products. ULTIMATE is able to achieve these excellent lambda values, because it has been converted 100 % from the basic raw material into efficient insulation and is completely free of slugs. High operation temperatures at low costs – quite simple with ULTIMATE.

ULTIMATE makes keeping cool easy.

The surface temperature is one of the most critical safety aspects when working on high temperature applications. However, thanks to their excellent lambda values, insulation solutions based on ULTIMATE always assure a significantly lower surface temperature than traditional insulation materials of the same thickness. For uncompromising safety.

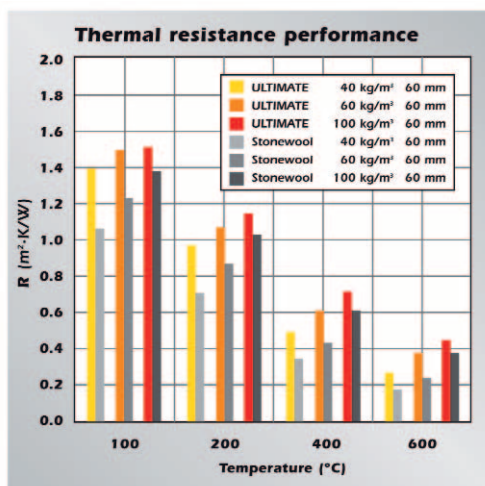


Fig.2: Thermal resistance performance

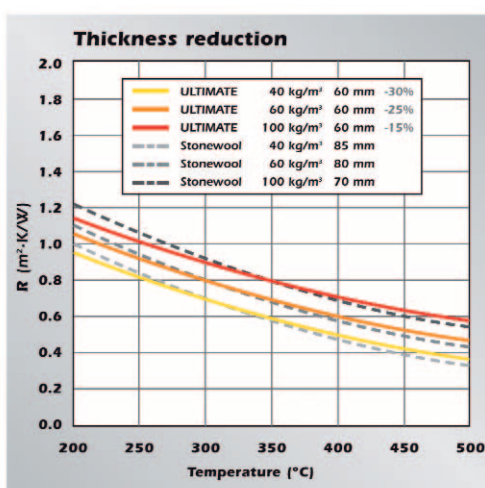


Fig.3: Thickness reduction



*Superior protection from heat:
thanks to ULTIMATE.*



ULTIMATE efficiency means: not overshooting the mark.



Since ULTIMATE has been exactly tailored to meet your needs, it unfolds its entire insulation potential over the full thermal range that is usually required by high temperature applications.

Even at constantly high service temperatures up to 660°C, you can rest assured of ULTIMATE protection from heat. Being a top performer, ULTIMATE offers you most reassuring security for all customary applications – from tanks, exhaust pipes and chimneys right up to boilers and furnaces. This is reliability you can build on.

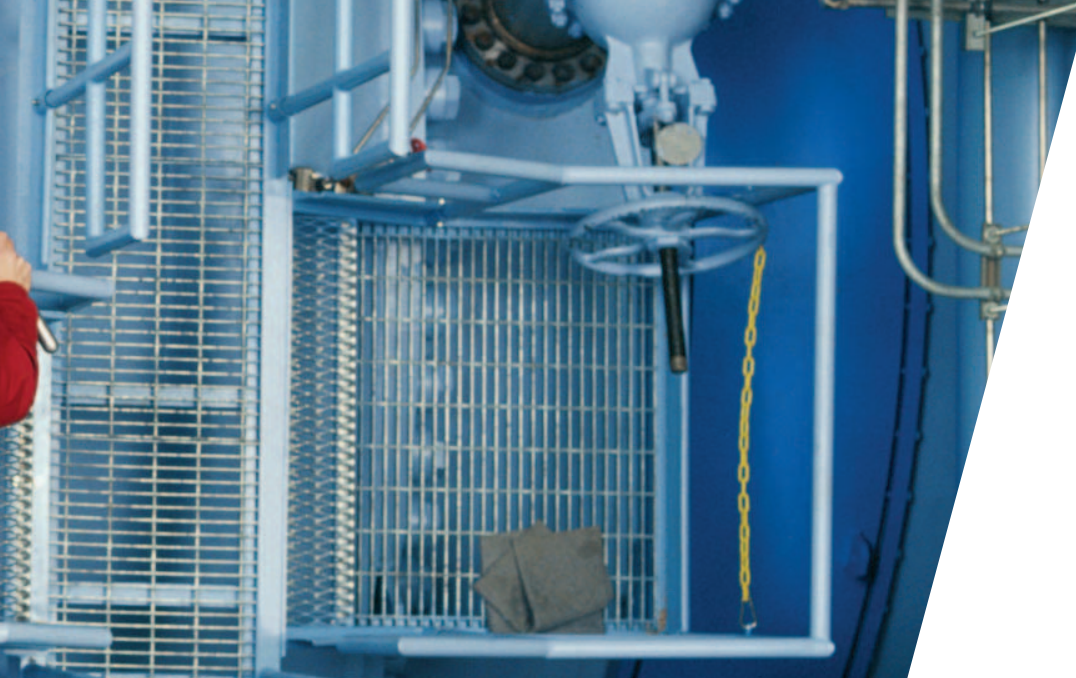
ULTIMATE takes that load off your mind.

ULTIMATE durably and reliably resists even extreme pressures – guaranteed by the MST classification. Moreover – and this distinguishes it from conventional solutions – ULTIMATE afterwards compensates the minimum permissible deformations caused by such extreme conditions and recovers its original shape: due to its uniquely flexible fibers.

Application	Service temperature in °C			
	300	400	500	600
Furnaces				
Pipes				
Tanks				
Boilers				
Exhaust pipes				
Chimneys				

When MST really matters.

When dealing with high temperature applications, the maximum service temperature (MST) of an insulation material must correspond to the highest permanent operation temperature of this industrial component. Even when being exposed to a load of 500 Pa (50 kg/m²) for 72 hours, the deformation of an insulation material must be less than 5 % during operation at MST. Thus, reliable security is guaranteed. Other load levels mean different maximum service temperatures.



Fire safety without compromise.



Safety is based on reliability. For this reason, ULTIMATE is your ideal partner for fire protection applications that need to meet the highest demands. ULTIMATE not only offers effective resistance to fire, but also very good performance in reaction to fire. This is top performance with respect to fire safety and thermal insulation – certified as A1, the best possible classification in the Euroclass system. We at ISOVER think that only when fulfilling all norms can we set new standards.

Put your trust in an insulation product that scores best in the Euroclass system: ULTIMATE.

Class	Requirements
A1, A2	non-flammable Flashover not possible
B	low flammability Flashover not possible
C	normally inflammable Flashover after more than 10 minutes
D	easily inflammable Flashover in the space of 2-10 minutes
E	easily inflammable Flashover in less than 2 minutes
F	easily inflammable



ULTIMATE on duty saves everyone a lot of trouble.

Euroclass system

What you need is fire performance that assures highest possible safety, designed to put your mind at ease so you can do the necessary planning – without need to worry about the safety of your staff.

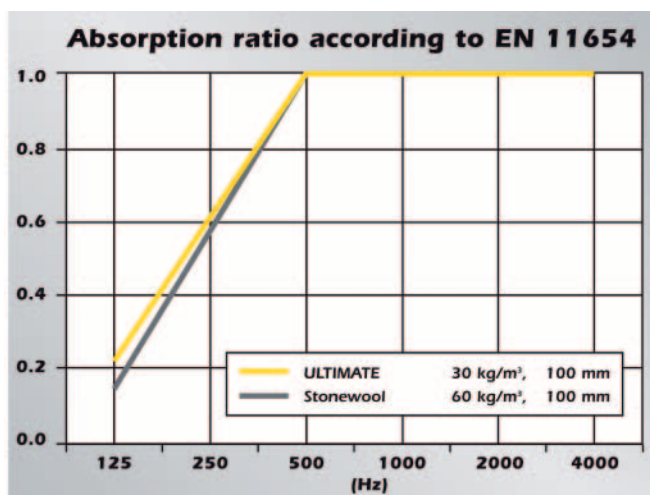


Unheard-of advantages – for your workers and for you.



The standards to be met by acoustic insulation are becoming more and more stringent. But ULTIMATE will help you make that decisive leap forward to state of the art. Due to its improved property profile, ULTIMATE provides sound absorption with up to 50 % less weight than competitive products and thus clearly outclasses conventional solutions. As soon as sound waves

penetrate this innovative material, their acoustic energy is drastically reduced by the friction in the fiber structure. At the same time, the resonance frequency of the sound waves drops below the audible range. In brief: it gets quiet. And compared to stonewool, ULTIMATE achieves this sound reduction at only half the weight.



Air flow resistance (DIN EN 29053) kPa•s/m²	
ULTIMATE	STONEWOOL
25-30 (kg/m³) : ≥ 15	30-50 (kg/m³) : ≥ 5
40-50 (kg/m³) : ≥ 30	70 (kg/m³) : ≥ 18
60-70 (kg/m³) : ≥ 48	100 (kg/m³) : ≥ 25
80-100 (kg/m³) : ≥ 70	120 (kg/m³) : ≥ 35

*Work more efficiently: thanks
to ULTIMATE sound insulation.*

Get your insulation into perfect shape with ULTIMATE.

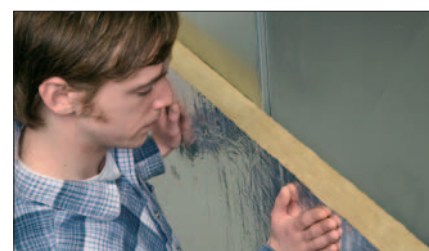
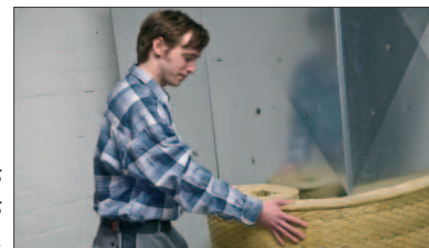


Thanks to its extraordinary flexibility, ULTIMATE perfectly adapts to all on-site conditions such as uneven surface structures. This feature makes installation surprisingly easy while at the same time opening up totally new structural solutions. Even bending around corners or odd shapes is possible without any problem. Save yourself the time-consuming work of encasing or the cost of expensive prefabrication. Due to its high pliability, ULTIMATE quite flexibly adapts to your individual needs.



Bending around a corner – fast, easy and efficient.

*Fewer thermal bridges
thanks to continuous
installation.*





The quicker the better. Efficient installation of your insulation.



Since ULTIMATE features flexibility paired with low weight, its handling on site is very efficient and user-friendly. Among other reasons, the stable fiber structure of ULTIMATE prevents it from breaking. The consequence: significantly fewer disturbances and delays in production. Over and above, this high performing product can save you a lot of work:

Since ULTIMATE reduces the necessary insulation thickness, you may only need to install a single layer instead of two – cutting work time by 35 %. But not only is the fitting easy and trouble-free. Also on-site logistics, especially in difficultly accessible spaces, can be tackled more quickly and comfortably. Thanks to ULTIMATE's lightweight and compressed packaging.



User-friendly, efficient and quick: installing ULTIMATE.



With a minimum of physical strength: bending around a corner.

Packed with benefits!

ULTIMATE features	Your benefits
• Quick installation	• Fewer delays and interruptions in production
• Larger dimensions	• Easier, faster and energy-efficient installation, fewer joints
• Compressed products	• More efficient logistics
• Low weight	• Easier and faster handling
• Flexible and adaptable	• Simple installation
• More robust and stable	• Less damage and waste



The ULTIMATE efficiency: low costs – high performance.



Watch full performance unfold: Despite its very compact size, the surface area covered with one roll of ULTIMATE is up to 40 % larger than that of comparable products. And thanks to its adaptable fiber structure, ULTIMATE offers unique compressibility and thus excellent logistical efficiency at significantly lower transportation costs.

From easy cutting to bending around corners – the installation of ULTIMATE is fast and flexible. The result: cost savings. Not only during installation but also during operation of the plant. Continuous installation with a reduced number of joints ensures that there are distinctly fewer thermal bridges. Edge break is now a thing of the past. Even in the most difficult corners, ULTIMATE can be fixed with next to no waste: off-cuts optimally fill niches and holes. This is outstanding performance, made by ISOVER.



Profit from substantial financial benefits.

The comfortable way to save money.

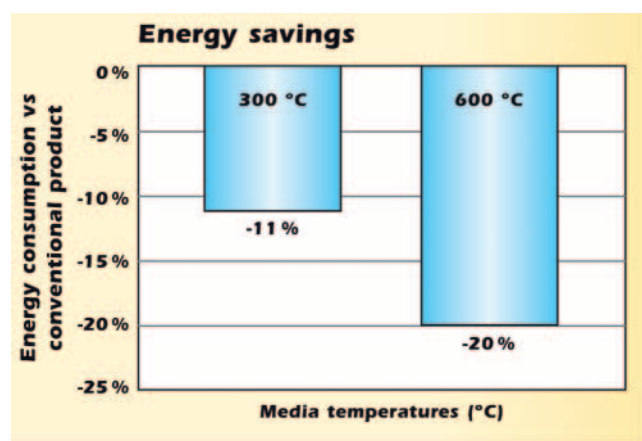
ULTIMATE is efficient in every respect. Its low weight and adaptability ensure more freedom in the planning phase, less logistical effort as well as maximum user friendliness during installation. And once in place, ULTIMATE will decrease the energy consumption more efficiently than any other type of insulation. Day by day. The comfortable way to save money.

Case 1: Lighter and even higher performance Comparing ULTIMATE U Tech products with conventional high temperature insulation products (100 kg/m³).

Conclusion: 34 % lighter product – less energy consumption

Case 2: Lighter and identical performance Comparing ULTIMATE U Tech products with conventional high temperature insulation products (40 kg/m³).

Conclusion: 43 % lighter product – same energy consumption





With ULTIMATE, efficient energy means unused energy.

Case 3: Same weight and higher performance comparing ULTIMATE U Tech products with conventional high temperature insulation products (70 kg/m³). With a media temperature of 600°C.

Conclusion: 52 % less energy consumption – with same product weight.



Reducing costs is a good thing. Not to produce any in the first place is even better. ULTIMATE offers you the chance to massively cut down on energy consumption. Benefit from this innovative insulation concept and reduce energy losses rapidly. Because the best (T) is an efficient (T). And this efficiency increase will make itself felt more and more strongly with higher operation temperatures. But this is not the only reason why ULTIMATE is the most economical way to curtail consumption and emissions. Much lower investment costs, compared to conventional insulation systems, plus faster payback: ULTIMATE helps you realize savings much faster. While always staying on the safe side.

The insulation that guarantees fast payback.

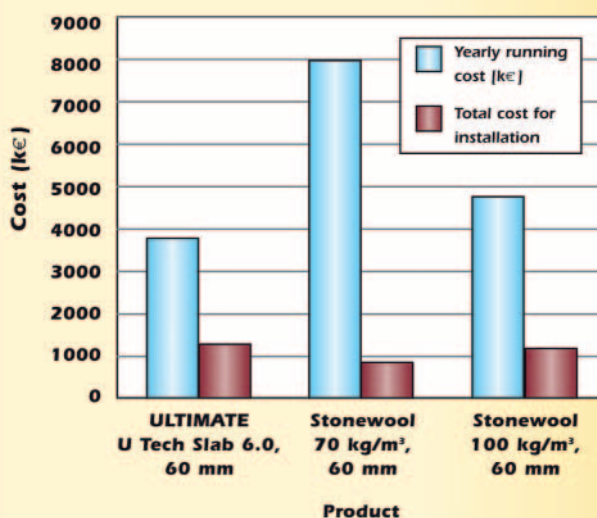
Since energy prices are subject to unpredictable increases, any investment in efficient insulation is bound to pay off more and more rapidly – and most rapidly with ULTIMATE, your most com-

petent insulation partner in the market. ULTIMATE puts you ahead of the game.

- Faster amortization
- Lower logistics and installation costs
- More than 50 % more efficient insulation compared to conventional insulation
- Greater decrease in energy costs

Case 4: Tank with liquid media

Surrounding temperature is 20°C, media temperature is 600°C. Total surface is 100 m². Energy cost is 0.0544 €/kWh.





ULTIMATE leaves space for environmental protection.

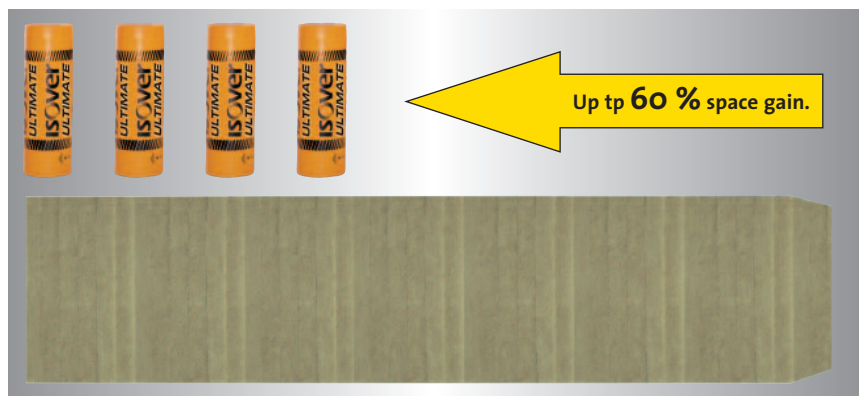


When it comes to transportation and load capacity, ULTIMATE reveals the full potential of its highly flexible fiber structure. Due to its extreme compressibility, the material saves you 60 % of total freight mileage. In addition, the remarkably low weight helps to cut down on fuel consumption during transit. ULTIMATE not only saves space, time and expense. It also contributes to protecting our environment.

ULTIMATE – a good feeling in every respect.



Ever since the company was founded, ISOVER has advocated the protection of our environment not only in its corporate philosophy, but has also made active and demonstrable contributions. Being the worldwide leading manufacturer of insulation systems, ISOVER plays a decisive role in improving our global energy efficiency, in particular with respect to reducing the climatically critical output of CO₂. For instance, when designing the thermal insulation for the curing ovens in ISOVER plants, ULTIMATE helps to cut CO₂ emissions.



On the safe side with ULTIMATE.

ULTIMATE's pleasant handling is mainly due to its flexible, elastic fiber structure. Being free of slugs, ULTIMATE also has a noticeably higher grip-friendliness. ULTIMATE meets the EU criteria for the quality label "Products made of Mineral Wool".

- Free of slugs
- Extremely grip-friendly
- Not harmful to health
- EUCB and RAL certificates



Compact portfolio. Endless advantages.

ULTIMATE offers a solution for all high temperature applications in industrial plants, based on a streamlined portfolio of standard products. The clear-cut assortment not

only offers advantages for storage and transportation, but also for on-site installation where mix-ups can be effectively avoided.

Slabs



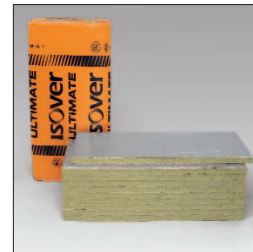
U Tech Slab 2.0
Slab: 1200 x 600 mm
Facings: no, alu and glass tissue



U Tech Slab 3.0
Slab: 1200 x 600 mm
Facings: no, alu and glass tissue



U Tech Slab 5.0
Slab: 1200 x 600 mm
Facings: no, alu and glass tissue

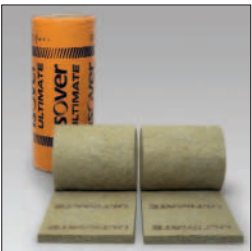


U Tech Slab 6.0
Slab: 1200 x 600 mm
Facings: no, alu and glass tissue

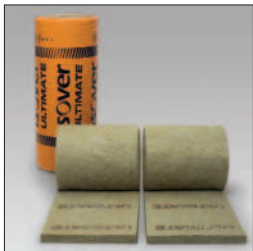


U Tech Slab 8.0
Slab: 1200 x 600 mm
Facings: no, alu and glass tissue

Rolls



U Tech Roll 2.0
Roll: L x 600 mm
Facings: no, alu and glass tissue



U Tech Roll 4.0
Roll: L x 600 mm
Facings: alu and glass tissue

Wired Mats



U Tech Wired Mat 5.0
Wired Mat: L x 600 mm
Facings: no and alu



U Tech Wired Mat 6.0
Wired Mat: L x 600 mm
Facings: no and alu

Facings



Glass tissue



Reinforced aluminium foil

Always the right choice – ULTIMATE Application Selector.

Find the right ULTIMATE product that exactly matches your needs: with our Application Selector. When choosing the right product, get answers to the following questions:

1. Required service temperature?
2. Required thermal performance?
3. Load on the product (facing/covering)?

	Application Application temperature					
Product	Furnaces 400-600 °C	Pipes up to 600 °C	Tanks up to 400 °C	Boilers up to 600 °C	Exhaust pipes 300-400 °C	Chimneys 300-400 °C
U Tech Slab 2.0 MST 300 °C Light, flexible			•	•		
U Tech Slab 3.0 MST 440 °C Light, flexible	•		•	•		
U Tech Slab 5.0 MST 600 °C Flexible and stable	•		•	•		•
U Tech Slab 6.0 MST 640 °C Flexible and stable	•		•	•		•
U Tech Slab 8.0 MST 700 °C Rigid	•	•	•	•		•
U Tech Roll 2.0 MST 300 °C Light, flexible	•	•	•	•		
U Tech Roll 4.0 MST 460 °C Flexible	•	•	•	•	•	•
U Tech Wired Mat 5.0 MST 550 °C Flexible and stable	•	•	•	•	•	•
U Tech Wired Mat 6.0 MST 600 °C Flexible and stable	•	•	•	•	•	•

ULTIMATE: On top of the table.

Product data

Product name	Product description		Dimensions									
	Characteristics	Performance	Length [mm]	Width [mm]	Thickness [mm]							
U Tech Slab 2.0 N	Light, flexible	Basic	1200	600	–	30	40	50	60	–	80	100
U Tech Slab 2.0 V1	Light, flexible	Basic	1200	600	–	30	40	50	60	–	80	100
U Tech Slab 2.0 Alu1	Light, flexible	Basic	1200	600	–	30	40	50	60	–	80	100
U Tech Slab 3.0 N	Light, flexible	Basic High	1200	600	–	30	40	50	60	–	–	100
U Tech Slab 3.0 V1	Light, flexible	Basic High	1200	600	–	30	40	50	60	–	–	100
U Tech Slab 3.0 Alu1	Light, flexible	Basic High	1200	600	–	30	40	50	60	–	–	100
U Tech Slab 5.0 N	Flexible and stable	Basic High	1200	600	–	30	40	50	60	–	–	100
U Tech Slab 5.0 V1	Flexible and stable	Basic High	1200	600	–	30	40	50	60	–	–	100
U Tech Slab 5.0 Alu1	Flexible and stable	Basic High	1200	600	–	30	40	50	60	–	–	100
U Tech Slab 6.0 N	Flexible and stable	High	1200	600	–	30	40	50	–	70	–	100
U Tech Slab 6.0 V1	Flexible and stable	High	1200	600	–	30	40	50	–	70	–	100
U Tech Slab 6.0 Alu1	Flexible and stable	High	1200	600	–	30	40	50	–	70	–	100
U Tech Slab 8.0 N	Rigid	High	1200	600	20	30	–	50	–	–	–	100
U Tech Slab 8.0 V1	Rigid	High	1200	600	20	30	–	50	–	–	–	100
U Tech Slab 8.0 Alu1	Rigid	High	1200	600	20	30	–	50	–	–	–	100
U Tech Roll 2.0 N	Light, flexible	Basic	*	600	–	30	40	50	60	–	80	100
U Tech Roll 2.0 V1	Light, flexible	Basic	*	600	–	30	40	50	60	–	80	100
U Tech Roll 2.0 Alu1	Light, flexible	Basic	*	600	–	30	40	50	60	–	80	100
U Tech Roll 4.0 V1	Flexible	Basic High	*	600	–	30	40	50	60	–	80	100
U Tech Roll 4.0 Alu1	Flexible	Basic High	*	600	–	30	40	50	60	–	80	100
U Tech Wired Mat 5.0 N	Flexible and stable	Basic High	*	600	–	30	40	50	60	70	80	100
U Tech Wired Mat 5.0 Alu1	Flexible and stable	Basic High	*	600	–	30	40	50	60	70	80	100
U Tech Wired Mat 6.0 N	Flexible and stable	High	*	600	–	30	40	50	60	70	80	100
U Tech Wired Mat 6.0 Alu1	Flexible and stable	High	*	600	–	30	40	50	60	70	80	100

* Depending on thickness. See technical data sheet for each product.

No	Facing		Fire reaction Euroclass EN 13501	Acoustics		Chemical behaviour Sulfide free	Thermal conductivity in W/mK with average temperature in °C according to EN 12667								MST according to EN 14706	
	Glass tissue	AL		Sound absorption class EN ISO 11654	Specific airflow resistance EN 29053		10	50	100	200	300	400	500	600	500 Pa [°C]	250 Pa [°C]
1	1	1	A1	0.81	10	Yes									300	360
			A1	0.81	10	Yes	0.033	0.040	0.050	0.079	0.121	0.179	0.255	0.353	300	360
			A1	–	10	Yes									300	360
1	1	1	A1	0.89	19	Yes									440	520
			A1	0.89	19	Yes	0.032	0.037	0.044	0.065	0.095	0.137	0.190	0.258	440	520
			A1	–	19	Yes									440	520
1	1	1	A1	0.99	40	Yes									600	640
			A1	0.99	40	Yes	0.030	0.034	0.040	0.056	0.079	0.108	0.146	0.193	600	640
			A1	–	40	Yes									600	640
1	1	1	A1	1.00	48	Yes									640	680
			A1	1.00	48	Yes	0.030	0.034	0.039	0.053	0.072	0.098	0.130	0.170	640	680
			A1		48	Yes									640	680
1	1	1	A1	1.00	70	Yes									660	–
			A1	1.00	70	Yes	0.030	0.035	0.045	0.051	0.065	0.083	0.104	0.129	660	–
			A1	–	70	Yes									660	–
1	1	1	A1	0.81	10	Yes									300	360
			A1	0.81	10	Yes	0.033	0.040	0.050	0.079	0.121	0.179	0.255	0.353	300	360
			A1	–	10	Yes									300	360
	1	1	A1	0.92	25	Yes	0.030	0.036	0.043	0.063	0.091	0.129	0.179	0.242	460	580
			A1	–	25	Yes									460	580
1		1	A1	0.99	40	Yes	0.030	0.035	0.041	0.057	0.078	0.104	0.138	0.182	540	600
			A1	–	40	Yes									540	600
1		1	A1	1.00	48	Yes	0.030	0.035	0.040	0.054	0.072	0.096	0.126	0.162	620	650
			A1	–	48	Yes									620	650

Data obtained on unfaced product according to EN 12667.

ULTIMATE – An answer to every question.



Which information do you need next? Find all topics covered in our Technical Data Sheets. We'll immediately send them to you free of charge. And our sales staff will be glad to offer comprehensive advice. Why don't you fix a date, right now?



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