



## U SeaProtect Roll 13

### Rolls unfaced – Density 13 kg/m<sup>3</sup>

ULTIMATE mineral wool provides a unique high-performance profile: It combines safety, comfort and ease of handling.



#### FIRE RESISTANCE

ULTIMATE provides effective fire resistance, but also very good performance in reaction to fire



#### THERMAL INSULATION

Excellent thermal insulation combined with unique efficiency



#### SOUND ABSORPTION

Improved acoustic comfort due to its excellent sound absorption and sound insulation properties



#### LIGHTWEIGHT

Increase insulation – reduce weight  
ULTIMATE combines high fire & thermal performance with very low weight



| CHARACTERISTIC       | SYMBOL         | UNIT      | QUANTITIES AND DECLARED VALUES                                                                                           |       |       |       |       | STANDARD  |
|----------------------|----------------|-----------|--------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-----------|
| Thermal conductivity | T              | [°C]      | 10                                                                                                                       | 50    | 100   | 150   | 200   | EN 12667  |
|                      | $\lambda_{NR}$ | [W/(m·K)] | 0.039                                                                                                                    | 0.047 | 0.063 | 0.080 | 0.108 |           |
| Thermal behaviour    | T              | [°C]      | Exposure to temperature until 400 °C (depends on density) is possible.<br>From 150 °C on the binder starts to volatilise |       |       |       |       | AGI Q 132 |

| CHARACTERISTIC       | SYMBOL   | UNIT       | QUANTITIES AND DECLARED VALUES | VALUES | STANDARD     |
|----------------------|----------|------------|--------------------------------|--------|--------------|
| Air flow resistivity | $\sigma$ | [KPa·s/m²] | Density 13 kg/m³               | ≥5     | DIN EN 29053 |

| CHARACTERISTIC                           | SYMBOL | UNIT      | QUANTITIES AND DECLARED VALUES                                                                                                                                                                                                     | STANDARD                                                         |
|------------------------------------------|--------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Specific thermal capacity                | c      | kJ/(kg·K) | 1.03                                                                                                                                                                                                                               | ISO 10456                                                        |
| Reaction to fire                         | -      | -         | Melting point according to DIN 4102, part 17: ≥ 1000 °C<br>Non combustible according to IMO-Resolution<br>Hologated for shipbuilding according to EC Type Examination<br>Certificates Nr.: MED-B+D Certificate = visit our website | DIN 4102-17<br>IMO-Resolution<br>MSC.307(88)-<br>(FTP-Code 2010) |
| Chemical behaviour                       | -      | -         | Sulphide free                                                                                                                                                                                                                      | -                                                                |
| Application field                        | -      | -         | Thermal insulation, acoustic insulation and fire protection constructions in shipbuilding                                                                                                                                          | -                                                                |
| Material                                 | -      | -         | Mineral wool with quality mark RAL by the Gütegemeinschaft Mineralwolle e.V., unriskey regarding health according to German decree on dangerous substances, decree on prohibition of chemicals and to Regulation (EC) N°1272/2008  | -                                                                |
| Water vapour diffusion resistance factor | $\mu$  | -         | - 1                                                                                                                                                                                                                                | ISO 10456                                                        |
| Quality management                       | -      | -         | ISOVER is certified according to DIN EN ISO 9001 and DIN EN ISO 14001                                                                                                                                                              | EN ISO 9001<br>EN ISO 14001<br>EN ISO 50001                      |

### DELIVERY FORM: STANDARD DIMENSIONS / PACKAGING INFORMATION\*

| THICKNESS D [MM] | WIDTH B [MM] |
|------------------|--------------|
| 100              | 1200         |
| 120              | 1200         |
| 50               | 1200         |
| 60               | 1200         |
| 80               | 1200         |

\* All dimensions require minimum order quantities / other dimensions on request.



### [www.isover-technical-insulation.com](http://www.isover-technical-insulation.com)

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