



Crystallized materials (CM) technology - for enhanced performance

Improved protection with superior weight management

Crystallized materials (CM) technology - an innovative development from OSG - enables a 40% to 60% reduction in weight and thickness for any level of protection.

Reduced weight, improved ability - In addition to reducing the weight of the transparent armor (TA), the weight of the frame will also be reduced by up to 40%. These significant reductions reduce the vehicle's overall weight, which enhances vehicle performance capabilities and increases payloads.

Estimated weight reductions for representative STANAG solutions:

| Protection class | Existing technology kg/m ² | CM technology kg/m |
|------------------|---------------------------------------|--------------------|
| STANAG 1 | 96 | 51 |
| STANAG 2 | 125 | 71 |
| STANAG 3 | 170 | 126 |
| STANAG 4 | 284 | 146 |

Improved visibility, increased safety - The CM technology also improves day and night visibility - aiding the driver in assessing and avoiding potential danger. The improved maneuverability increases the survival rate.

> **CRYSTALLIZED TECHNOLOGY**

> **CONVENTIONAL TECHNOLOGY**

**Up to 50%
lighter**

Heavy

Key features & benefits

- Reduced weight and thickness
- Better maneuverability
- Longer vehicle life cycle
- Higher payloads
- Increased light transmission and NVG
- Reduced stress on drivetrain and suspension



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