

REPRESENTATION OF THE IM REQUIREMENTS

| | | NATO | | UK | GERMANY | ITALY | | | FRANCE | | | USA | |
|---|-----------------|-------------------|-----------------|-------------------|---------|-----------|--------------------------|----------------|--------|--|----------------|------------------|---------------|
| THREAT | TEST PROCEDURES | | STANAG 4439 | | | | | | | | | | |
| | STANAG | Stimuli | IM requirements | AASTP-1 SsD 1.2.3 | JSP 520 | Fu S IV 3 | DG-AT IM Guidelines 2000 | | | INSTRUCTION N° 211893 July 21 st , 2011 | | | MIL-STD-2105D |
| | | | | | | | Φ | ΦΦ | ΦΦΦ | ★ | ★★ | ★★★ ⁴ | |
| Magazine / store fire or aircraft / vehicle fuel fire | 4240 | FH | V | V | V | V | V | V | V | IV ² | V ³ | V ³ | V |
| Fire in adjacent magazine, store or vehicle | 4382 | SH | V | V | V | V | V | V | V | III | V | V | V |
| Small arms attack | 4241 | BI | V | V | V | V | V | V | V | III | V | V | V |
| Most severe reaction of same munition in magazine, store, aircraft or vehicle | 4396 | SR | III | III | III | III | III | III | III | III | III | III | III |
| Fragmenting munitions attack | 4496 | FI | V | | V | V | | I ¹ | V | | V | V | V |
| | 4496 | FI Heavy Fragment | | | | | | I ¹ | V | | III | III | |
| Shaped charge weapon attack | 4526 | SCJI | III | | III | III | | I ¹ | III | | III | III | III |

¹ Type I or more, as per THA ² Without propulsion ³ Only after five minutes ⁴ All EM compliant with UN Orange Book Test Series 7

STANAG 4439 "Policy for introduction and assessment of Insensitive Munitions" • AOP 39 "Guidance on the Assessment and Development of Insensitive Munitions"

Any variation in the threats shall be justified through an approved munition Threat Hazard Analysis (THA).
The IM Signature is assessed for any particular configuration of a munition during its life cycle.

Type of Response (defined in AOP39)

2013

| | English | Français | Deutsch | Italiano |
|-----|--------------------|----------------------|-------------------------|----------------------|
| VI | No Reaction | Non Réaction | Keine Reaktion | Nessuna Reazione |
| V | Burn | Combustion | Abbrand | Combustione |
| IV | Deflagration | Explosion | Deflagration | Deflagrazione |
| III | Explosion | Déflagration | Explosion | Esplosione |
| II | Partial detonation | Détonation partielle | Teilweise Detonation | Detonazione parziale |
| I | Detonation | Détonation | Vollständige Detonation | Detonazione |

Munition Test Procedures

| Stimuli | FH | 4240 | External Fire (Fast Heating) | Incendie externe | Schnelle Aufheizung | Incendio rapido |
|---------|------|------|------------------------------|--------------------------------|-------------------------|---|
| | SH | 4382 | Slow Heating | Echouffement lent | Langsame Aufheizung | Incendio lento |
| | BI | 4241 | Bullet Impact | Impact de balle | Projekttilbeschuss | Impatto con proiettili di piccolo calibro |
| | SR | 4396 | Sympathetic Reaction | Réaction par influence | Sympathetische Reaktion | Reazione per influenza |
| | FI | 4496 | Fragment Impact | Impact d'éclat | Splitterbeschuss | Impatto con scheggia |
| | SCJI | 4526 | Shaped Charge Jet Impact | Impact de jet de charge creuse | Hohlladungsbeschuss | Impatto con dardo di carica cava |



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