

In cooperation with the Norwegian Defence Research Establishment, Nammo has developed a less toxic TTC Smoke Hand Grenade produced with plastic material.



**TTC SMOKE HAND GRENADE**  
**NSN 1330-25-160-1549, NM 248**



The TTC smoke hand grenade is less toxic compared to conventional smoke hand grenade, which produces so-called HC-smoke which on several occasions has caused lethal lung damage in soldiers.

The new concept is based on the explosive dissemination (air burst) of a liquid, Titanium Tetrachloride (TTC). When in contact with the humidity in the air, the TTC liquid produces a smoke screen. Because the TTC smoke hand grenade produces no flames, it can also be used for training in areas with dry vegetation

- Main components:
- Fuze mechanism of metal or plastic material
  - Inner and outer container of plastic material
  - TTC liquid in the inner container
  - Chalk (Dolomite) in the area between inner and outer container

Length	~170 mm
Diameter	~66 mm
Weight	~600 g
Explosive	~4 g burst charge (Black powder)
NSN	1330-25-160-1549
Model No.	NM 248

In cooperation with the Royal Norwegian Navy, Nammo has developed a Diver Recall Signal (DRS) for safe and cost-effective underwater signalling.



**DIVER RECALL SIGNAL (DRS)**



DRS is a safe and simple one-shot device for underwater signalling. To be used by diver support personnel on the surface to create an acoustic pulse underwater in the event of an incident that requires divers to exit the water.

- Main components:
- Standard hand grenade fuze mechanism
  - Safety lever of plastic material
  - Body of steel or brass

Length	~150 mm
Diameter	~20 mm
Weight	~185 g
Explosive	~12.0 g indicative charge
NSN	
Model No.	

# HAND GRENADE SOLUTIONS

- fragmentation • offensive • urban areas
- training • smoke • diver recall signal





Nammo offers many different types of hand grenades and fuze mechanisms for different purposes.

The products by Nammo are a result of long experience and continuous development in close cooperation with our customer. All operations are in accordance with ISO 9001, ISO 14001 and AQAP 2110 standards.



OFFENSIVE HAND GRENADE  
HGO 115-3,5 AND 225-3,5



Offensive Hand Grenade gives an extensive shock effect with a very limited number of fragments. It is specially designed for use in closed rooms, such as bunkers, buildings or semi-closed areas like trenches. A version with metal fuze mechanism is also available.

- Main components
- plastic container for explosive
  - explosive filling
  - fuze mechanism of metal or plastic
  - patented dual operation safety pin

OFFENSIVE HAND GRENADE HGO 115-3,5

Length ~85 mm

Diameter ~53 mm (with handle ~65 mm)

Weight ~205 g

Explosive ~115 g, alternatively 50g Comp B (Heksotol 60/40)

NSN

OFFENSIVE HAND GRENADE HGO 225-3,5

Length ~135 mm

Diameter ~53 mm (with handle max 65 mm)

Weight ~390 g with metal handle  
~350 g with plastic handle

Explosive ~225 g Comp B (Heksotol 60/40)

NSN 1330-58-000-1749 (with metal handle)

OFFENSIVE HAND GRENADE  
HGO 115-3,5 MODULAR



The Nammo modular offensive hand grenade gives scalable shock effect by attaching modules together and variety for use with a very limited number of fragments. Each module has its own fuze and grenades can be used either separately or by attaching two to three modules together.

- Main components
- plastic container for explosive
  - explosive filling
  - fuze mechanism of metal or plastic
  - patented dual operation safety pin

FRAGMENTATION HAND  
GRENADE HGF 165-3,5



Fragmentation Hand Grenade gives an extensive burst of fragments in a 360° distribution. The steel body is prefragmented to give optimum performance in weight, shape and equal size of the fragments.

- Main components
- prefragmented metal body with an optimum fragmentation pattern
  - explosive filling
  - fuze mechanism of metal or plastic
  - patented dual operation safety pin

Length ~93 mm, steel body

Diameter ~63 mm (with handle ~70 mm)

Weight ~450 g

Explosive ~165 g Comp B (Heksotol 60/40)

NSN 1330-58-000-1750

FRAGMENTATION HAND  
GRENADE HGF 60-3,5



Fragmentation Hand Grenade with a compact size and weight gives an effective burst of fragments in urban surroundings. The steel body is prefragmented to give optimum performance in weight, shape and equal size of the fragments.

- Main components
- prefragmented metal body with an optimum fragmentation pattern
  - explosive filling
  - fuze mechanism of metal or plastic
  - patented dual operation safety pin

Length ~90 mm

Diameter ~40 mm (with handle ~60 mm)

Weight ~230 g with metal handle  
~190 g with plastic handle

Explosive ~60 g Comp B (Heksotol 60/40)

NSN

TRAINING FRAGMENTATION  
HAND GRENADE HGT 165-3,5 AND 60-3,5



Training Fragmentation Hand Grenade gives a cost-effective and realistic option to train the use of Fragmentation Hand Grenade. It is similar to Fragmentation Hand Grenade in shape, weight, packaging and instruction for use. The body can be used several times by replacing the fuze mechanism. It is safe to use and has limited safety area.

- Main components
- metal body with similar weight to Fragmentation Hand Grenade
  - small explosive filling to indicate function
  - fuze mechanism of metal or plastic
  - patented dual operation safety pin

TRAINING FRAGMENTATION HAND GRENADE HGT 165-3,5:

Length ~93 mm

Diameter ~63 mm (with handle ~70 mm)

Weight ~450 g

Explosive ~1 g indicative charge

NSN

TRAINING FRAGMENTATION HAND GRENADE HGT 60-3,5:

Length ~90 mm, steel body

Diameter diameter ~40 mm (with handle ~60 mm)

Weight ~230 g with metal handle  
~190 g with plastic handle

Explosive ~1 g indicative charge

TRAINING OFFENSIVE HAND  
GRENADE HGT 115-3,5 AND 225-3,5



Training Offensive Hand Grenade gives a cost-effective and realistic option to train the use of the Offensive Hand Grenade. It is similar to Offensive Hand Grenade in shape, weight, packaging and instruction for use. The body can be used several times by replacing the fuze mechanism. It is safe to use and has limited safety area.

- Main components
- plastic container with similar weight to the Offensive Hand Grenade
  - small explosive filling to indicate function
  - fuze mechanism of metal or plastic
  - patented dual operation safety pin

TRAINING OFFENSIVE HAND GRENADE HGT 115-3,5

Length ~90 mm

Diameter ~53 mm (with handle ~65 mm)

Weight ~245 g with metal handle  
~205 g with plastic handle

Explosive ~1g indicative charge

NSN

TRAINING OFFENSIVE HAND GRENADE HGT 225-3,5

Length ~135 mm

Diameter ~53 mm (with handle ~65 mm)

Weight ~390 g with metal handle  
~350 g with plastic handle

Explosive ~1g indicative charge