

# 105 MM TP-T M490

This round is used for all the guns included in the STANAG 4458.

The 105mm M490 TP-T cartridge is for use in 105mm gun cannons for training in marksmanship. The cartridge is similar in external appearance and ballistically similar to the M456 HEAT-T cartridge. The projectile consists of a steel body, an aluminum standoff spike, and a boom and fin assembly with tracer. The cartridge case is filled with loosely packed propellant and is fitted with an electronic primer.



## TECHNICAL CHARACTERISTIC

ROUND		BALLISTIC CHARACTERISTICS	
Type:	Crimped	Muzzle speed:	1,173 m/s (M68)
Model:	M490	Chamber pressure (21°C):	425 MPa
Length:	990 mm		
Mass:	22.5 kg	Approximate maximum range:	8,200 m
		Precision:	≤ 0.35 <sup>oo</sup>
PROJECTILE		PRESENTATION OF THE PRODUCT	
Type:	TP-T M490	1 round in watertight cardboard case	
Body material:	Steel	2 cardboard cases in wooden case	
Explosive charge:	-		
Fuze type:	-	Cases with 2 rounds:	
Fuze model:	-	• Weight:	68 kg
Tracer:	M13	• Length:	1,180 mm
Marks:	White	• Width:	364 mm
Length:	647 mm	• Height:	221 mm
Mass:	10.3 kg	• Volume:	0.093 m <sup>3</sup>
CASE		Pallets with 24 rounds:	
Model:	M148A1	• Weight:	825 kg
Material:	Brass	• Length:	1,200 mm
Length:	608 mm	• Width:	1,100 mm
Mass:	6 kg	• Height:	1,030 mm
		• Volume:	1.36 m <sup>3</sup>
PRIMER		CLASSIFICATION	
Type:	Electric	NOC:	1315-33-002-1999
Model:	M83	Group:	1.2 C
Load:	32.4 g (benite strand)		
PROPELLING CHARGE			
Type:	Triple base		
Designation:	M30		
Characteristics:	Cyl. Multiperforated		
Mass:	~ 5.5 kg		