



Banc National d'Epreuve  
Saint-Etienne

# AMMUNITION MEASUREMENT REPORT N° 2021-41A

on January 31st, 2022

## DELIVERED TO:

MEDEF SAVUNMA SANAYI VE DIS TIC AS

Söğütözü Mah. Söğütözü Cad.

A Blok Apt. No : 2 A/9

ANKARA - Turkey

**SUBJECT:** Type testing

according to CIP's decisions

Manufacturing test

**TESTED SAMPLE(S)**

**CALIBER:** 9mm Luger

**TYPE:** FMJ

**LOT:** VNM22

**SIZE:** ≤500.000 pieces

*This report shows only the characteristics of the sample under test and is without prejudice to the characteristics of similar products. So it is not a product certification within the meaning of article L115-27 of the code of consumption and of the law of June 3, 1994.*

*To declare conformity or nonconformity, he was did not account of the uncertainty associated with the result.*

*The report contains 4 page(s).*

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# 1. Check of the basic package

The following indications appear on the basic packing unit:

- a) Factory name or brand of the manufacturer  Yes  No
- b) Batch identification number.  Yes  No
- c) Quantity of ammunition contained in the basic package.  Yes  No
- d) For proof cartridges: „Proof Ammunition“.  Yes  No  N/A
- e) A test marking certifying that the ammunition has been tested in accordance with C.I.P. specifications.  Yes  No
- f) Designation following TDCC denomination.  Yes  No
- High Performance Ammunition:  N/A
- g) For ammunition loaded with either lead shot or lead free shot of types A and D, an additional inscription showing clearly that they may only be fired from weapons that have been subjected to superior proof.  Yes  No  N/A
- h) For ammunition loaded with lead free shot of types B and C, an additional inscription showing clearly that they may only be fired in weapons that have been subjected to steel shot proof.  Yes  No  N/A
- i) If the diameter of the lead free shot pellets (of types B and C) in cal. 10 and cal. 12 Cartridges is greater than 4mm and in Cal. 20 Cartridges is greater than 3.25mm, an additional inscription showing clearly that these cartridges may only be fired in weapons that have been subjected to steel shot proof with barrel(s) having a choke of less than or equal to 0.5mm  Yes  No  N/A
- j) For cartridges with lead free shot of types B and C, a warning of the danger of ricochets and the need to avoid firing at hard or rigid surfaces  Yes  No  N/A
- k) In the case of re-filled cartridges, information clearly stating that they are re-filled cartridges  Yes  No  N/A
- l) For cartridges not capable of firing solid projectiles, if need be, a description of the liquid and gaseous substances discharged during firing  Yes  No  N/A
- m) For all cartridges loaded with lead free shot, the nature of the material(s) used to make the shot pellets and the type of shot; the same inscription could also be added in one of the languages used by the CIP Member States  Yes  No  N/A
- n) The commercial ammunition must be packed in suitable containers  Yes  No
- o) The basic package must be suitably closed  Yes  No
- p) Lack of cartridges of different types in the same basic package  Yes  No



## 2. Check of the existence of distinctive markings on each cartridge and, for lead free cartridges, the component parts of the cartridges

The following marks must bear on the cartridge:

<i>Admissible number of marking defects 2,3,5,8, according to lot size (double in case of type testing)</i>	<b>Number of defects</b>	<b>Number of admissible defects</b>
a) The identity of the cartridge manufacturer or the person who re-filled them or the person guaranteeing them (identification must be provided by a manufacturer's mark or a mark of origin applied in indelible fashion either to the base or the casing).	0	2
b) On the base of centrefire ammunition, the caliber in compliance with C.I.P. nomenclature. If it is impossible for technical reasons to show the caliber on the base, it may be marked in indelible fashion on the body of the casing.	0	2
c) The shell for the munitions intended for weapons with a smooth barrel of 20 gauge should be yellow in colour.	N/A	2

d) For ammunition loaded with lead shot or lead free shot the diameter in mm of the shot and the length of the cartridge case if it exceeds:

- 65 mm for 20 bore and above
- 63.5 mm for 24 bore and below.

Yes  No  N/A

e) The proof ammunition are identified either by a serrated rim, or by the colour red on the rear face of the rim, or by the whole cartridge case being red in colour, or by the words „Proof Ammunition“ coupled with the proof pressure for that caliber on the body of the cartridge case in one of the languages used by C.I.P. Member States;

Yes  No  N/A

f) The high performance ammunition for smooth bore weapons are identified either by a different color on the rear face of the rim, or by the words „Max. 1050 bar “or „For a weapon proofed by 1320 bar“ on the body of the cartridge case in one of the languages used by C.I.P. Member States.

Yes  No  N/A

g) Ammunition meant to be fired from dust shot weapons must have different dimensions in order that such rounds may not be inserted into alarm weapons.

Yes  No  N/A

h) In the case of cartridges loaded with lead free shot, a factory marking giving the nature of the main shot material must be printed on the cartridge tube. The same inscription could also be added in one of the languages used by the CIP Member States.

Yes  No  N/A

## 3. Check of the absence of defects of the cartridges before firing

<i>Admissible number of marking defects 2,3,5,8, according to lot size (double in case of type testing)</i>	<b>Number of defects</b>	<b>Number of admissible defects</b>
a) Longitudinal fissures at the mouth, over 3 mm	0	2

Lack of the following defects:

b) Wrong caliber

Yes  No

c) Longitudinal fissures at the mouth, over 3 mm

Yes  No

d) All other longitudinal and/or transverse fissures

Yes  No

e) Rupture of the base

Yes  No



#### 4. Check of the dimensions

- a) Conformity of the important dimensions from the point of view of safety :  Yes  No  
All ammunition sampled must conform to fixed dimension limits considered important from the point of view of safety.
- b) Conformity of the dimensions which define the type :  Yes  No  
Fixed dimension limits for type definition are checked by means of a general gauge, taking into account minimum dimensions of chambers as referred to in Addendum A. All ammunition sampled must enter smoothly into the gauge
- c) In the case of cartridges for alarm weapons, the total length after firing (L3) is also measured for those cartridges which were used to determine the gas pressure or energy.  Yes  No  N/A
- d) The primer is checked to verify if it does not protrude above the level of the base of the ammunition  Yes  No
- e) The lead free shot of types B and C contained in standard cartridges must have:
- Cartridges cal.12 shot diameter  $\leq 3.25\text{mm}$  (+2%)  Yes  No  N/A
  - Cartridges cal.16 shot diameter  $\leq 3.00\text{ mm}$  (+2%)  Yes  No  N/A
  - Cartridges cal. 20 shot diameter  $\leq 3.00\text{ mm}$  (+2%)  Yes  No  N/A

#### 5. Check of the mean pressure, the equivalent parameters in the case of a special ammunition and, for the lead-free cartridges types B and C, of the mean velocity and the momentum.

See the herewith measurement report n° 2021-41A

All the results are conform  Yes  No

#### 6. Check of the operating safety

During the shots in the pressure barrel, lack of the following defects:

- a) Escape of gases towards the rear, beyond the lock  Yes  No
- b) Seizing of the projectile, or parts thereof, within the barrel  Yes  No
- c) Tearing of the cartridge case, which remains completely or partially within the barrel  Yes  No
- d) Total stripping of the cartridge case  Yes  No
- e) Bursting of the cartridge case base  Yes  No
- f) in addition, in the case of cartridges for alarm weapons, any discharge of fragments or particles of propellant, wad, etc. from the cartridge case, which have penetrated a sheet of A2 size paper of quality 100-115 g/m<sup>2</sup> and thickness of  $0.12 \pm 0.02\text{ mm}$  mounted on a support at a distance of 1.5 m from the muzzle of the pressure measurement barrel.  Yes  No  N/A

DECISION:  ACCEPTED  REFUSED

#### COMMENTS:

Affix CIP sign on the packaging.

The Director of the Banc National d'Eprouve  
**J.M.BERTHEL**





Banc National d'Épreuve  
RAYE Homologation  
Saint-Étienne

<b>Calibre:</b> 9 mm Luger	<b>Canon:</b> 9x19 (SN 080909 P)	<b>Température:</b> 20.9 °C
<b>Type cartouche:</b>	<b>Longueur canon:</b> 150.0 mm	<b>Humidité rel.:</b> 43 %
<b>Fabricant:</b> MEDEF SAVUNMA SANAYI	<b>Capteurs:</b> 6215(1) (SN5269056) - 1.371 - KISTLER 5015	<b>Pression atm:</b> 968 mBar
<b>Importateur:</b>		<b>Bulletin n°:</b> 4694
<b>Num Lot:</b> VNM22		<b>Date de tir:</b> 2021-10-06
<b>Date charg.:</b> 2021-10-06		<b>Technicien:</b>

**CONTROLE:** VITESSE-PRESSION      **CLIENT:** MEDEF SAVUNMA SANAYI VE DIS TIC AS

**CARTOUCHE**

**Marque culot:** VNM 21 9P  
**Hauteur:**  
**Type d'amorce:**  
**Nature tube:**  
**Couleur tube:**  
**Hauteur culot:**  
**Sertissage:**  
**Bourre:**

**POUDRE**

**Type:**  
**Lot:**  
**Masse:**

**PROJECTILE**

**Type:** FMJ  
**Masse:** 115.0 gr  
**N° imprimé:**  
**Diamètre:**  
**Dureté:**  
**Ecrasement:**

Nr	V2.5	PMax1	Remarque							
1	362.5	2 277								
2	361.2	2 255								
3	363.9	2 328								
4	358.7	2 216								
5	360.4	2 262								
6	362.5	2 249								
7	359.6	2 207								
8	362.0	2 227								
9	363.7	2 280								
10	361.9	2 262								
11	359.4	2 218								
12	362.2	2 271								
13	360.5	2 208								
14	357.7	2 163								
15	364.9	2 279								
16	362.3	2 363								
17	359.6	2 114								
18	364.0	2 299								
19	364.9	2 335								
20	358.8	2 137								
21	359.6	2 164								
22	360.6	2 220								
23	360.1	2 247								
24	365.3	2 378								
25	354.8	2 078								

Commentaires:

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**Banc National d'Épreuve**  
**RAYE Homologation**

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**CARTOUCHE**
**Marque culot:** VNM 21 9P  
**Hauteur:**  
**Type d'amorce:**  
**Nature tube:**  
**Couleur tube:**  
**Hauteur culot:**  
**Sertissage:**  
**Bourre:**
**POUDRE**
**Type:**  
**Lot:**  
**Masse:**
**PROJECTILE**
**Type:** FMJ  
**Masse:** 115.0 gr  
**N° imprimé:**  
**Diamètre:**  
**Dureté:**  
**Ecrasement:**

Nr	V2.5	PMax1	Remarque							
26	359.5	2 217								
27	357.5	2 098								
28	359.8	2 235								
29	362.0	2 235								
30	359.2	2 133								
31	363.3	2 219								
32	358.2	2 089								
33	359.8	2 235								
34	361.6	2 188								
35	361.2	2 163								
36	357.7	2 045								
37	358.6	2 107								
38	362.0	2 205								
39	357.9	2 128								
40	358.4	2 305								
Moy	360.7	2 216								
EcType	2.4	79								
Max	365.3	2 378								
Min	354.8	2 045								
EcTot	10.5	333								

Nbr tirs: 40      Kxn: 2.94      P Moy. stat CIP: 2 703      P Moy. stat obtenue: 2 448  
 Critère 1: PMax1\_Pn <= PMax      2 216.0 <= 2 350.0      Conforme  
 Critère 2: PMax1\_Pn+(K1n\*PMax1\_Sn) <= PK      2 448.3 <= 2 703.0      Conforme  
 Critère 3:  
 Critère 4:  
 Critère 5:  
 Critère 6:  
 Critère 7:

**Conclusion CIP: Conforme****Commentaires:**

Signature:

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 Jean-Clément  
 Adjoint au Directeur
