



Banc National d'Epreuve
Saint-Etienne

AMMUNITION MEASUREMENT REPORT N° 2018-45A

on 18/05/2018

DELIVERED TO:

POONGSAN CORPORATION

Poongsang Bldg.

23, Chungjeong-ro

Seodaemun-gu

Seoul 03737, Korea

SUBJECT: Type testing

according to CIP's decisions

Manufacturing test

TESTED SAMPLE(S)

CALIBER: 50 Browning

TYPE: Bronze

LOT: 50A-0033

SIZE: >35000 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.

The report contains 4 page(s).

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

1. 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:

Admissible number of marking defects 2,3,5,8, according to lot size (double in case of type testing)	Number of defects	Number of admissible defects
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

d) 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

e) 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

f) 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

g) 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

2. Check of the absence of defects of the cartridges before firing

Admissible number of marking defects 2,3,5,8, according to lot size (double in case of type testing)	Number of defects	Number of admissible defects
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



3. 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

4. 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° 2018-45A

All the results are conform Yes No

5. 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/m² 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:

P.R.
 The Director of the Banc National d'Epreuve
P.RENAUDOT

