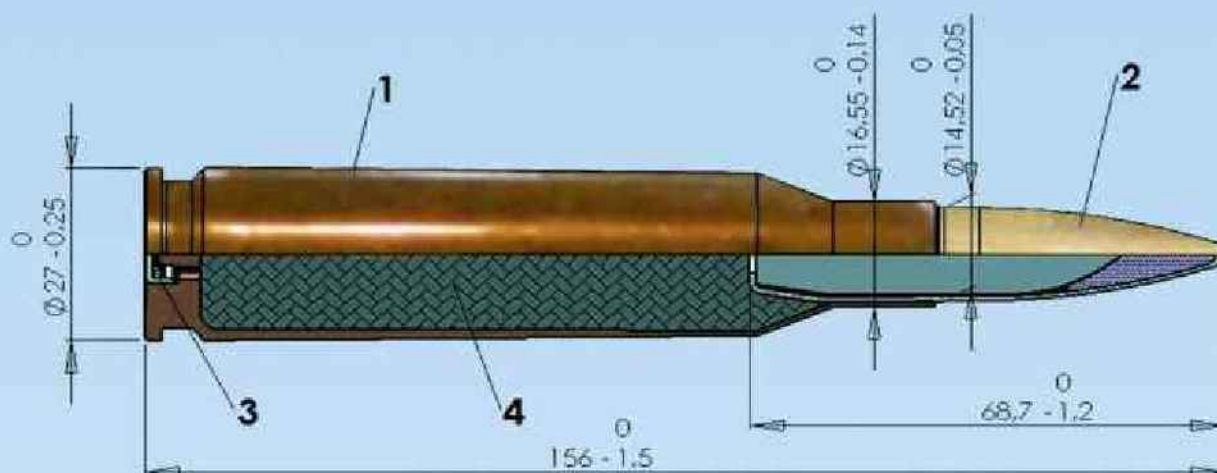


Cal. 14.5 × 114 mm CARTRIDGES WITH BALL BULLET



I DESTINATION

For use in 14.5 x 114 mm caliber machine guns – KPV, KPVT, ZU2 and MR4.

II CARTRIDGE COMPONENTS

1. Cartridge case made of steel, lacquered in brown color.
2. Bullet of 64 g, not painted, with:
 - bullet jacket made of clad steel;
 - core made of mild steel;
 - inert composition.
3. Primer - Berdan type.
4. Propellant - single base type, 5/7 N/A or NC 261.

III TECHNICAL DATA

- | | |
|---------------------------------------|---|
| 1. Medium velocity of bullet at 25 m: | $V_{25} = 980 \text{ m/s} \div 995 \text{ m/s}$ |
| 2. Average max. pressure: | $P_{\text{med.max}} \leq 330 \text{ MPa}$ |
| 3. Individual max. pressure: | $P_{\text{max.max}} \leq 350 \text{ MPa}$ |
| 4. Accuracy: The average radius: | $R_{50} \leq 20 \text{ cm}; \text{ at } 300 \text{ m};$ |
| 5. Bullet extraction force: | $150 \div 650 \text{ Kgf}$ |

IV PACKING

40 pcs 14.5 × 114 mm cartridges per UN certified steel ammunition box; 105 (104+1) steel boxes per 1 wooden pallet. A steel box contains the tools for box opening.

- | | |
|------------------------------------|-----------------------------|
| No of cartridges per pallet: | 4160 rds. |
| Pallet overall dimensions (Lxlxh): | 1120 x 885 x 850 mm |
| Net / gross pallet weight: | 770/897 kg |
| UN#0012; Hazard class: 1.4S; | N.E.Q. = 32 g; TNT Eq.: 4 g |

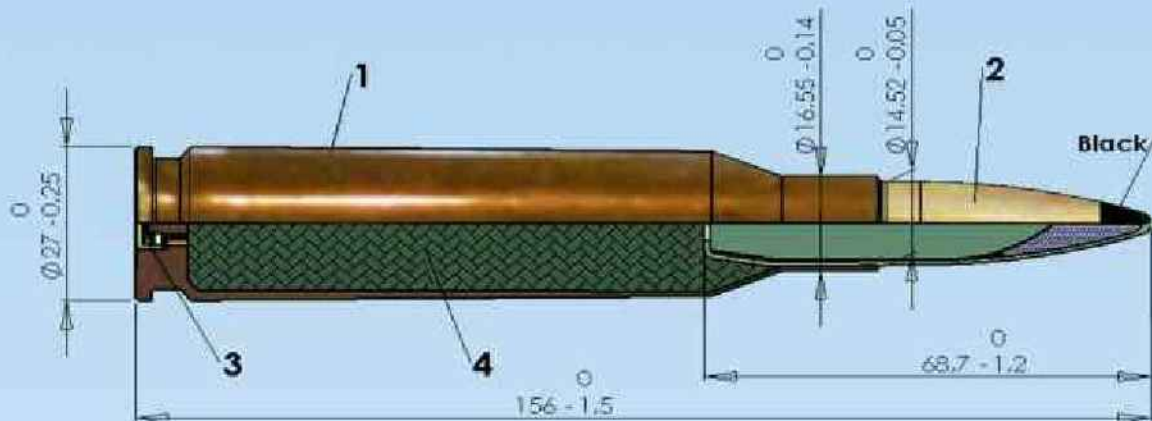


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Cal. 14.5 x 114 mm CARTRIDGES WITH ARMOUR PIERCING (AP) BULLET



I DESTINATION

For use in 14.5 x 114 mm caliber machine guns – KPV, KPVT, ZU2 and MR4.

II CARTRIDGE COMPONENTS

1. Cartridge case made of steel, lacquered in brown color.
2. Bullet of 64 g, with tip painted in black consists of:
 - bullet jacket made of clad steel;
 - hard core made of steel;
 - inert composition.
3. Primer - Berdan type.
4. Propellant - single base type, 5/7 N/A or NC 261.

III TECHNICAL DATA

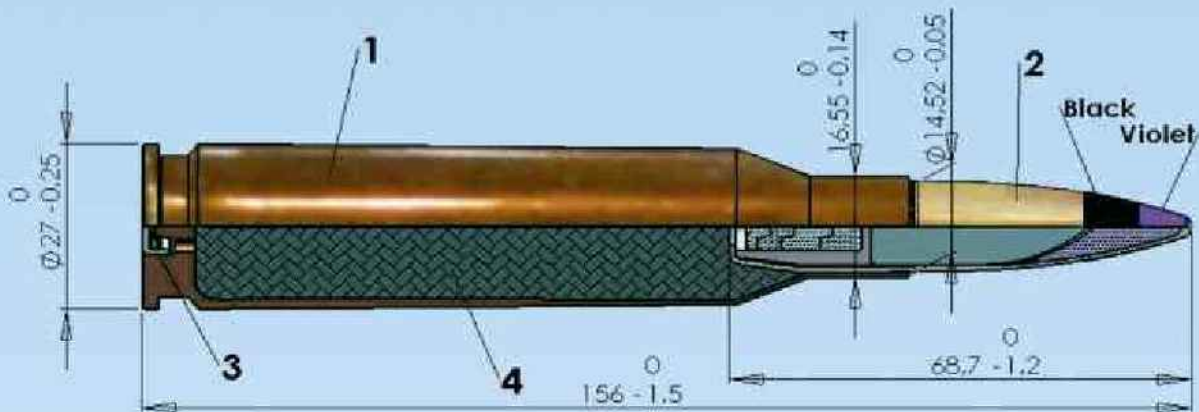
- | | |
|---|---|
| 1. Medium velocity of bullet at 25 m: | $V_{25} = 980 \text{ m/s} \div 995 \text{ m/s}$ |
| 2. Average max. pressure: | $P_{\text{med.max}} \leq 330 \text{ MPa}$ |
| 3. Individual max. pressure: | $P_{\text{max.max}} \leq 350 \text{ MPa}$ |
| 4. Accuracy: The average radius: | $R_{50} \leq 20 \text{ cm}; \text{ at } 300 \text{ m};$ |
| 5. Armour piercing capacity through 20 mm thick armour at 300 m distance: | $\geq 80\%$ |
| 6. Bullet extraction force: | $150 \div 650 \text{ Kgf}$ |

IV PACKING

40 pcs 14.5 x 114 mm cartridges per UN certified steel ammunition box; 105 (104+1) steel boxes per 1 wooden pallet. A steel box contains the tools for box opening.

- | | |
|-----------------------------------|---------------------------|
| No of cartridges per pallet: | 4160 rds. |
| Pallet overall dimensions (Lxlxh) | 1120 x 885 x 850 mm |
| Net / gross pallet weight: | 770/897 kg |
| UN #0012; Hazard class: 1.4S; | N.E.Q. = 32g; TNT Eq.: 4g |

Cal. 14.5 x 114 mm CARTRIDGES WITH ARMOUR PIERCING TRACER (APT) BULLET



I USE

For use in 14.5 x 114 mm caliber machine guns – KPV, KPVT, ZU2 and MR4.

II CARTRIDGE COMPONENTS

1. Cartridge case made of steel, lacquered in brown color.
2. Bullet of 59 g with tip painted in violet and black, consists of:
 - bullet jacket made of clad steel;
 - hard core made of steel;
 - inert composition;
 - tracer cup with tracer composition.
3. Primer - Berdan type.
4. Propellant - single base type, 5/7N/A or NC 261.

III TECHNICAL DATA

- | | |
|---|--|
| 1. Medium velocity of bullet at 25 m: | $V_{25} = 995 \text{ m/s} \div 1015 \text{ m/s}$ |
| 2. Average max. pressure: | $P_{\text{med.max}} \leq 330 \text{ MPa}$ |
| 3. Individual max. pressure: | $P_{\text{max.max}} \leq 350 \text{ MPa}$ |
| 4. Accuracy: | $R_{50} \leq 20 \text{ cm; at } 300 \text{ m}$ |
| 5. Armour piercing capacity through 20 mm thick armour at 100 m distance: | $\geq 80\%$ |
| 6. Tracer capacity at 2000 m distance: | $\geq 80\%$ |
| 7. Bullet extraction force: | $150 \div 650 \text{ Kgf}$ |

IV PACKING

40 pcs 14.5 x 114 mm cartridges per UN certified steel ammunition box; 105 (104+1) steel boxes per 1 wooden pallet. A steel box contains the knives.

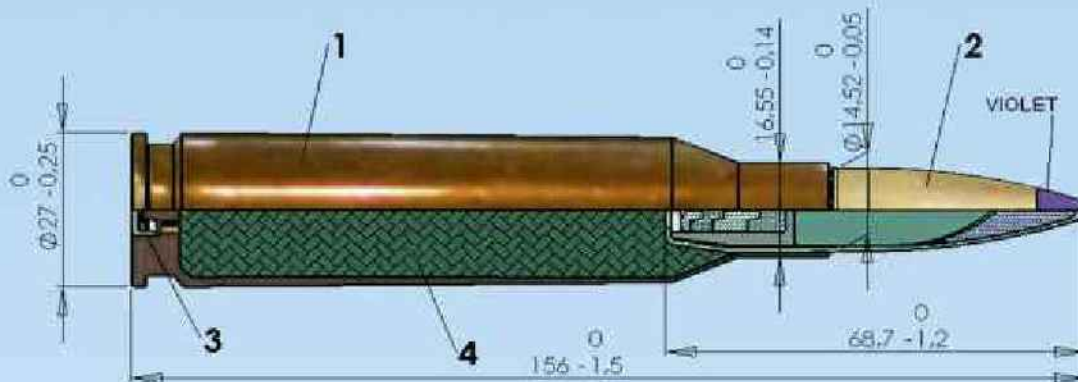
- | | |
|--|--------------------|
| No of cartridges per pallet: | 4160 rds. |
| Pallet overall dimensions (LxHxh) | 1120 x 885x 850 mm |
| Net / gross pallet weight: | 749/876 kg |
| UN# 0012; Hazard class: 1.4S; N.E.Q. = 33,4 g; TNT Eq.: 4,18 g | |



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Cal. 14.5 x 114 mm CARTRIDGES WITH TRACER (T) BULLET



I USE For use in 14.5 x 114 mm caliber machine guns – KPV, KPVT, ZU2 and MR4.

II CARTRIDGE COMPONENTS

1. Cartridge case made of steel, lacquered in brown color.
2. Bullet of 59 g with tip painted in violet, consists of:
 - bullet jacket made of clad steel;
 - core made of mild steel;
 - inert composition;
 - tracer cup with tracer composition.
3. Primer - Berdan type.
4. Propellant - single base type, 5/7 N/A or NC 261.

III TECHNICAL DATA

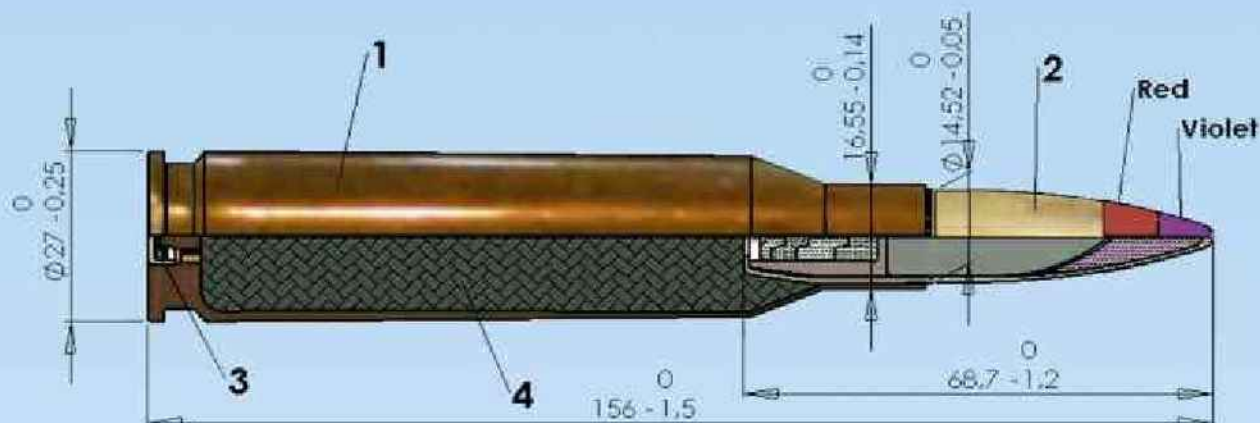
- | | |
|--|--|
| 1. Medium velocity of bullet at 25 m: | $V_{25} = 995 \text{ m/s} \div 1015 \text{ m/s}$ |
| 2. Average max. pressure: | $P_{\text{med.max}} \leq 330 \text{ MPa}$ |
| 3. Individual max. pressure: | $P_{\text{max.max}} \leq 350 \text{ MPa}$ |
| 4. Accuracy: | $R_{50} \leq 20 \text{ cm}; \text{ at } 300 \text{ m}$ |
| 5. Tracer capacity at 2000 m distance: | $\geq 80\%$ |
| 6. Bullet extraction force: | $150 \div 650 \text{ Kgf}$ |

IV PACKING

40 pcs 14.5 x 114 mm cartridges per UN certified steel ammunition box; 105 (104+1) steel boxes per 1 wooden pallet. A steel box contains the knives.

- | | |
|--|---------------------|
| No of cartridges per pallet: | 4160 rds. |
| Pallet overall dimensions (Lxlxh): | 1120 x 885 x 850 mm |
| Net/ gross pallet weight: | 749/876 kg |
| UN#0012; Hazard class: 1.4S; N.E.Q.=33,4 g; TNT Eq.:4,18 g | |

Cal. 14.5 x 114 mm CARTRIDGES WITH ARMOUR PIERCING INCENDIARY (API) BULLET



I USE For use in 14.5 x 114 mm caliber machine guns – KPV, KPVT, ZU2 and MR4.

II CARTRIDGE COMPONENTS

1. Cartridge case made of steel, lacquered in brown color.
2. Bullet of 64 g, with tip painted in black and red consists of:
 - bullet jacket made of clad steel;
 - hard core made of steel;
 - incendiary composition.
3. Primer - Berdan type.
4. Propellant - single base type, 5/7N/A or NC 261.

III TECHNICAL DATA

- | | |
|---|---|
| 1. Medium velocity of bullet at 25 m: | $V_{25} = 980 \text{ m/s} \div 995 \text{ m/s}$ |
| 2. Average max. pressure: | $P_{\text{med.max}} \leq 330 \text{ MPa}$ |
| 3. Individual max. pressure: | $P_{\text{max.max}} \leq 350 \text{ MPa}$ |
| 4. Accuracy: The average radius: | $R_{50} \leq 20 \text{ cm; at } 300 \text{ m;}$ |
| 5. Armour piercing capacity through 20 mm thick armour at 300 m distance: | $\geq 80\%$ |
| 6. Incendiary capacity of gasoline behind 20 mm thick armour at 100 m distance: | $\geq 80\%$ |
| 7. Bullet extraction force: | $150 \div 650 \text{ Kgf}$ |

IV PACKING

40 pcs 14.5 x 114 mm cartridges per UN certified steel ammunition box; 105 (104+1) steel boxes per 1 wooden pallet. A steel box contains the tools for box opening.

- | | |
|--|---------------------|
| No of cartridges per pallet: | 4160 rds. |
| Pallet overall dimensions (Lxlxh) | 1120 x 885 x 850 mm |
| Net / gross pallet weight: | 770/897 kg |
| UN# 0300; Hazard class: 1.4G; N.E.Q. = 33,7 g; TNT Eq.: 4,21 g | |

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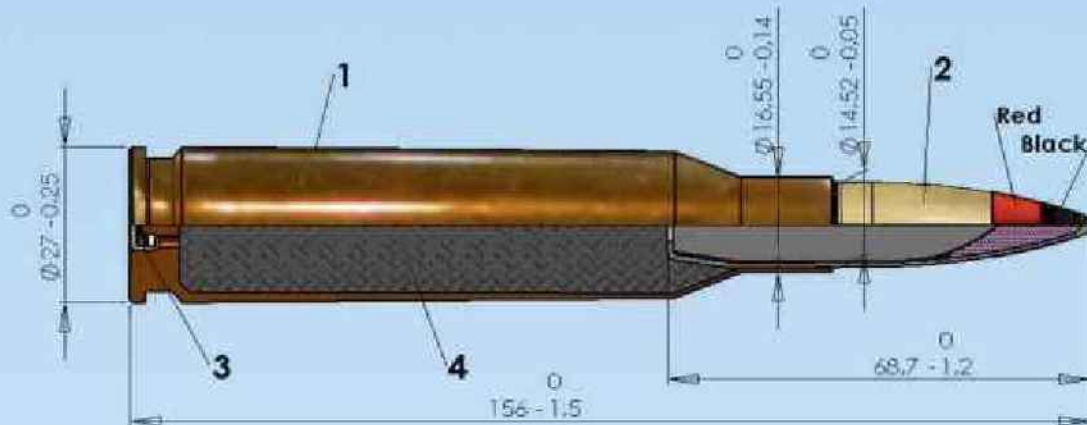


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Cal. 14.5 x 114 mm CARTRIDGES WITH ARMOUR PIERCING INCENDIARY TRACER (APIT) BULLET



I USE For use in 14.5 x 114 mm caliber machine guns - KPV, KPVT, ZU2 and MR4.

II CARTRIDGE COMPONENTS

1. Cartridge case made of steel, lacquered in brown color.
2. Bullet of 59 g with tip painted in violet and red, consists of:
 - bullet jacket made of clad steel;
 - hard core made of steel;
 - incendiary composition;
 - tracer cup with tracer composition.
3. Primer - Berdan type.
4. Propellant - single base type.

III TECHNICAL DATA

- | | |
|---|--|
| 1. Medium velocity of bullet at 25 m: | $V_{25} = 995 \text{ m/s} \div 1015 \text{ m/s}$ |
| 2. Average max. pressure: | $P_{\text{med.max}} \leq 330 \text{ MPa}$ |
| 3. Individual max. pressure: | $P_{\text{max.max}} \leq 350 \text{ MPa}$ |
| 4. Accuracy: | $R_{50} \leq 20 \text{ cm}; \text{ at } 300 \text{ m}$ |
| 5. Armour piercing capacity through 20 mm thick armour at 100 m distance: | $\geq 80\%$ |
| 6. Incendiary capacity of gasoline behind 20 mm thick armour at 100 m distance: | $\geq 90\%$ |
| 7. Tracer capacity at 2000 m distance: | $\geq 80\%$ |
| 8. Bullet extraction force: | $150 \div 650 \text{ Kgf}$ |

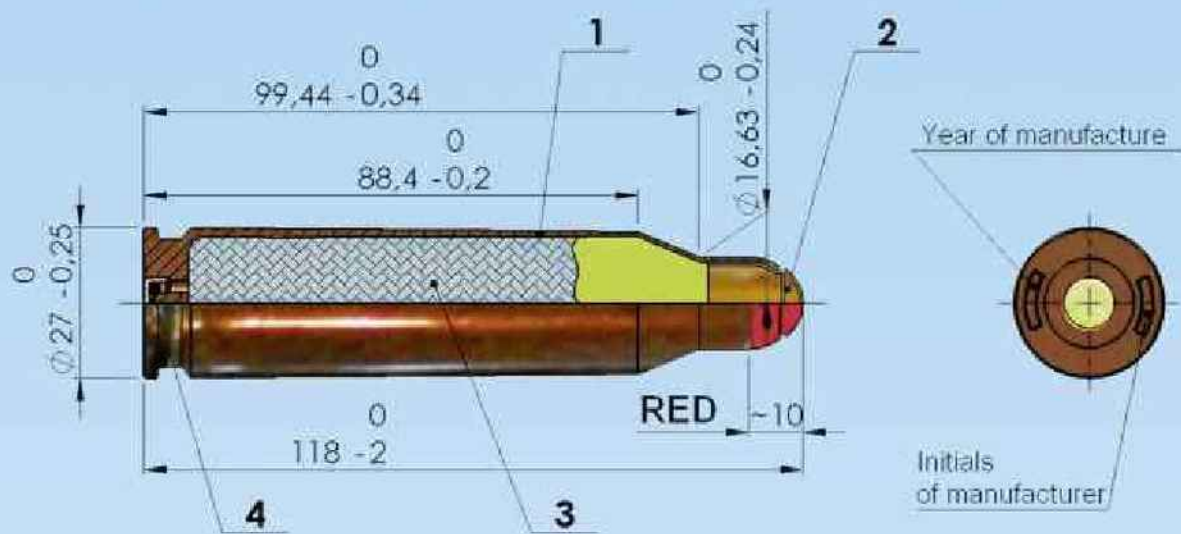
IV PACKING

40 pcs 14.5 x 114 mm cartridges per UN certified steel ammunition box; 105 (104+1) steel boxes per 1 wooden pallet. A steel box contains the knives.

- | | |
|---|--------------------|
| No of cartridges per pallet: | 4160 rds. |
| Pallet overall dimensions (LxLxh): | 1120 x 885x 850 mm |
| Net / gross pallet weight: | 749/876 kg |
| UN# 0300; Hazard class: 1.4G; N.E.Q. = 35 g; TNT Eq.: 4,3 g | |

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Cal. 14.5 x 114 mm BLANK CARTRIDGE



I CARTRIDGE COMPONENTS

- 1.1 Cartridge case made of steel, lacquered in brown color.
- 1.2 Cup made of cardboard
- 1.3 Primer - Berdan type.
- 1.4 Propellant - single base type.

II DESTINATION

- 2.1 Cartridges can be used for KPV or KPVT machine guns, prepared for training, with recoil fortifying and special feeding device.

III TECHNICAL DATA

- 3.1 14.5 x 114 mm blank cartridges must assure a burst firing with a cadence of minimum 450 rds/minute.
- 3.2 In a cardboard panel at 15 m away from machine gun muzzle must be no piercing.

IV PACKING

58 pcs 14.5 x 114 mm blank cartridges per steel ammunition box; 2 ammunition steel boxes (116 cartridges) overpacked in a wirebound wooden crate.

Wooden crate dimensions: 485 x 350 x 164 mm
Wooden crate gross weight: 19 kg



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