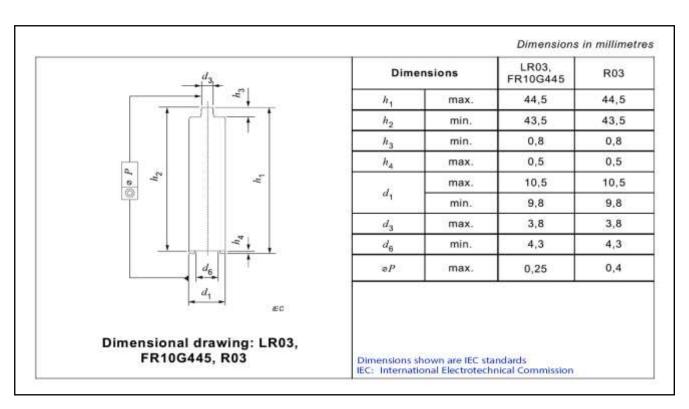


Tcbest

This document is provide to customers as reference information for basic awareness, storage and protection.

Battery detalis				
Brand	Tcbest			
Chemistry	Carbon - Zinc			
IEC Name	R03P			
Size	AAA			
Voltage	1.5 volt			
Weight	7.5 _{gr}			
Dimensions	10 imes 44 mm			
Capacity	455 _{mAh}			
The thickness of the can	0.35 _{mm}			
Made by	Sam Arsh Parseh .Co			
Country	IRAN			

Materials	content	chemic al formula	Place of application	More information
Ammonium chloride	41% _{тw} ↑	NH₄Cl	Electrolyte	Corrosive / Sensitive to moisture
Zinc chloride	39% _{тw} ↑	ZnCl2	Electrolyte	
Mercury	0% _{тw}	Hg	Electrolyte	osivo tive stui
Cadmium	0% _{тw}	Cd	Electrolyte	e / 9 to re
Lead	0% _{тw}	Pb	Electrolyte	
Manganese dioxide	37% _{тw} ↑	MnO2	Cathode	rod shape
Carbon	46% _{тw} ↑	С	Cathode	iou snape
Zn	93% _{тw} ↑	Zn	anode	Used in the form of cans
Coated iron		Fe	Positive pole	Used on top of the battery
Coated iron		Fe	Negative pole	Used at the bottom of the battery





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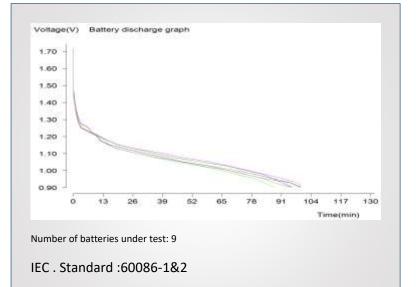
R03P SIZE : AAA ZINC/CARBON

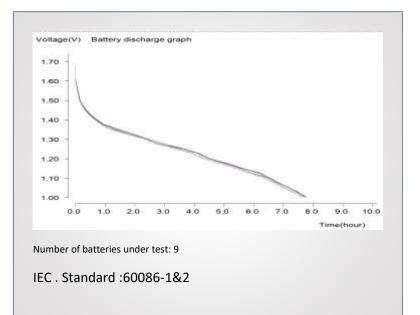
Constant resistance test (AAA battery)

IEC designation: R03P OCV.max(V): 1.73 V $V_n(V)$: 1.5 V EV(V): 0.9 V MAD_{standard} Minutes: 50 ' Load: 5.1 Ω MAD samarshparseh production: 92'AVG \uparrow



IEC designation: R03P
OCV.max(V): 1.73 V
Vn(V): 1.5 V
EV(V): 0.9 V
MAD _{Standard} Hour: 4 Hours
Load: 24 Ω
MAD samarshparseh production: 7.5AVG Hours





OCV.max : Maximum open-circuit voltage

V_n: Nominal voltage

IEC : INTERNATIONAL ELECTROTECHNICAL COMMISSION

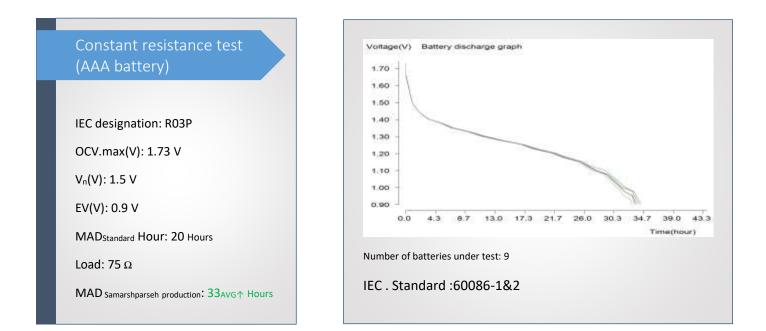
EV : end-point voltage

MAD : minimum average duration



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R03P SIZE : AAA ZINC/CARBON



SUPER HEAVY DUTY

• Handling and storage

- When packing the batteries, do not allow battery terminals to contact each other, or contact with other materials. Be sure to packed batteries by providing partition in the packaging box, or in a separate plastic bag so that the single batteries are not mixed together.
- II. Use strong material for packing boxes so that they will not damage by vibration, impact, dropping and stacking during their transportation.
- III. Do not short circuit, recharge, deform, throw into fire or disassemble.
- IV. Do not mix different type of batteries.
- V. Do not solder directly onto batteries.
- VI. Insert the battery correctly in electrical equipment.
- VII. Do not let water penetrate into packaging boxes during their storage and transportation.
- VIII. Do not store the battery in places of the high temperature or under direct sunlight.
- IX. Please also avoid the places of high humidity. Be sure not to expose the battery to condensation, rain or freezing conditions.



R03P SIZE : AAA ZINC/CARBON

- Protective exposure in case of electrolyte leakage from the battery
 - I. Respiratory Protection: For most conditions there is no respiratory protection.

Tcbest

SUPER HEAVY DUTY

- II. Hand Protection: Safety gloves, or do not touch.
- III. Eye Protection: Safety glasses must be worn, In case of contact with eyes, rinse immediately with plenty cold of water.
- IV. Skin Protection: In case of contact with skin, rinse with plenty cold of water.

ATTENTION:

The height to which batteries may be stacked is clearly dependent on the strength of the pack. As a general guide, this height should not exceed 1,5 m for cardboard packs or 3 m for wooden cases.

batteries shall be stowed away from ship engines and not left for long periods in unventilated metal box cars (containers) during summer.

Although the storage life of batteries at room temperature is good, storage is improved at lower Temperatures (e.g. in cold rooms -10 °C to +10 °C or in deep-freeze conditions below -10 °C), provided special precautions are taken. The batteries shall be enclosed in special protective packaging (such as sealed plastic bags or variants) which should be retained to protect them from condensation during the time they are warming to ambient temperature. Accelerated warming is detrimental. Batteries which have been cold-stored should be put into use as soon as possible after return to ambient temperature.

