

NCAA BASEBALL BAT TESTING PROTOCOL UPDATED FEBRUARY 2025

GENERAL PRINCIPLES

For Division I, the NCAA Baseball Rules require that all nonwood bats used during competition be reviewed by baseball bat testing conducted prior to the start of play on each date of competition. For Divisions II and III, the rules require that all nonwood bats used during competition be reviewed by baseball bat testing conducted prior to the start of play for each series or single date of competition. A bat must satisfy all sections of the bat testing process to be compliant for competition. Bats failing any section of the testing protocol shall not be used in competition. The purpose of this testing is to ensure that legal equipment is used in competition. Rule 4.4.c requires that coaches confirm that their team is playing with legal equipment.

All bats used during competition must appear on the <u>NCAA Approved Bat List</u>, pass the barrel ring test and barrel compression testing. Bat testing is required for all regular and post season NCAA competition.

BAT TESTING PROCEDURE

Bat testing consists of three parts. The first part is a visual inspection of the bat. The second part is a ring test to verify the maximum diameter and that the barrel is not misshapen. The third part is a barrel compression test to verify the compression level in two locations on the barrel in the process described below.

a. Visual Inspection of the Bat:

- 1. Ensure that the bat model appears on the approved bat list
- 2. Ensure the bat does not have flat spots.
- 3. Ensure the bat does not have audible rattle.
- 4. Ensure the bat does not have cracked or loose knob or end caps and attachments.
- 5. Ensure the bat does not have a foreign substance on the surface of the bat beyond 18 inches from the end of the handle.

(By NCAA rule, attachments are not permitted on the end cap or knob of the baseball bat.)

b. Ring Test:

- 1. Place the bat end cap on the ground and place the bat ring over the knob letting it fall.
- 2. If the ring passes over the bat from gravity alone (without force), the diameter passes.
- 3. If the bat passes through the ring, it proceeds to barrel compression testing.
- 4. If the ring does not pass over the bat, the bat is unacceptable for play and is surrendered for the duration of the game/series.

c. Barrel Compression Test Procedure:

1. Calibrate fixture - To check the calibration of the device, insert the calibration cylinder (provided with the tester) just as you would a bat. Be sure to center the cylinder under the anvil. Turn the gauge until it reads "0 lbs." and pull the cam level. The compression should meet the tolerance engraved on the cylinder. If the device is not calibrated, contact the LV Sports customer service line with any questions..

2. All nonwood bats shall be tested approximately six (6) inches from the end of the barrel. The bat will then be rotated 90 degrees and tested again

3. Bats will be tested a maximum of three times, until it receives two passing results or two failing results, whichever comes first.

4. If after tests:

- a. The bat has two passing results, the bat will be considered approved for competition.
- b. The bat has one passing result and one failing result, the bat will be removed from the machine and be visually inspected for cracks. If no cracks are found, the bat will be tested a third time for a final result.
- c. The bat has two failing results, the bat will be considered unacceptable for play and is surrendered for the duration of the game/series.
- d. If the compliance or non-compliance of a bat is questioned, game management will request final review by the umpire Crew Chief or umpire crew prior to a team's first game at a neutral site venue or tournament.

IDENTIFYING APPROVED BATS

Bats passing bat testing shall be identified as approved with a tamper-proof sticker at the taper area of the bat. The taper area is the area at the bottom of the barrel, just above the handle. The bat testing sticker used for that day of competition shall be placed on the lineup card given to the umpire. For Division I, bats are required to be tested each day of competition. *Note: Bat stickers will be supplied by the NCAA for all rounds of the NCAA Baseball Championships (all three divisions)*.

- a. Series at campus location Bats shall be tested prior to the first game of the series. Bats shall be identified as passing by placing the opposing team's tamper-proof sticker on the bat.
- b. Single date of competition at campus or neutral location Bats shall be tested prior to all single dates of competition at a campus or neutral site location. Bats shall be identified as passing by placing the opposing team's tamper-proof sticker on the bat.
- c. Tournament or neutral site events Bats shall be tested prior to the first contest during a tournament or neutral site event. Bats shall be identified as passing with a tournament or event tamper-proof sticker provided by the host institution or entity.
- d. The tamper-proof sticker shall be applied to the same location on the bat to allow a single tamper-proof sticker for the applicable game, series or tournament shall be the prominently visible sticker to identify the bat as compliant.

LOCATION AND TIME OF TESTING

- a. The location for barrel testing will be determined by the host and will be communicated to participating institution(s) no less than 24 hours prior to the scheduled start of competition.
- b. Testing must be conducted with representatives from both teams and a game management present.
- c. Coaches or team designee will bring all bats to the testing location.
- d. Testing should not be conducted in public view or near spectators/media.

PROCEDURE FOR FAILED BATS

Bats that fail any part of the bat testing protocol shall be surrendered to game management and be retained for the duration of the game, series or tournament for being unacceptable for play.

BARREL COMPRESSION TESTING EQUIPMENT

Barrel compression testing equipment is required to conduct barrel compression testing. It is recommended that testing equipment be purchased from Bat Testing Solutions via www.barrelcompression.com.

The following should be purchased:

- G4 SSL Baseball Bat Compression Testing unit (\$1,350)
- Baseball bat ring (\$100)

BAT STICKERS

Bat stickers shall be made of a destructible material, so that the sticker is not transferrable from one bat to another. Bats that pass the testing protocol shall be identified with the opposing team's sticker for the single game, doubleheader or single opponent series throughout the season. Bats that pass the testing process shall be identified with the tournament/event or conference's sticker for tournament or multi-team events. The sticker shall remain visible during the contest, series or tournament.

The sticker shall be placed at the taper, the area at the bottom of the barrel, just about the handle of the bat. The bat testing sticker used for that day of competition shall be placed on the lineup card given to the umpire.

Bats Exempt from Barrel Compression Testing:

- Wood bats. All wood bats are exempt from compression testing.
- Mizuno Maxcor. The Mizuno Maxcor model is exempt from compression testing.
- **Delano Bat Company.** The Delano Bat Company "Original Gamer" model, model number FOG-25-33 is a wood composite bat and exempt from compression testing.

Lowest Passing Barrel Compression Results:

- Metal bats: 1250 lbs.
- Composite bats: 1000 lbs.
- Non-linear*: 800 lbs.

*The Rawlings Quatro, Rawlings Quatro Pro, Rawlings Quatro Max, Rawlings Quatro IX and Mizuno PWR CRBN models are currently the only BBCOR models with a barrel compression approved for non-linear bats.

Maximum Barrel Compression Results:

• There is no maximum compression for metal and composite BBCOR baseball bats.

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TESTING QUESTIONS

Member institutions and conferences should contact Stanley Broaden (sbroaden@ncaa.org) regarding questions about the NCAA bat testing process (Rule 1.12.g and Appendix G).

CUSTOMER SERVICE

How to videos on how to calibrate the testing The Bat Testing Solutions staff can be reached at www.barrelcompression.com, and via email at G4battesters@gmail.com.