



*Barnes loads were developed using brass fire-formed to fit the Ackley Improved chamber.

*To fire-form brass, use the faster-burning powders and loads from standard .257 Roberts data.

*To properly chamber a rifle for .257 Ackley Improved cartridges, a gunsmith must set the original barrel back about 0.004". The chamber distance from the bolt face to the junction of shoulder and neck is shorter in Ackley Improved rifles than in standard .257 Roberts chambers. This allows standard .257 Roberts ammunition to be safely fired in .257 Roberts Improved chambers.

*The .257 Ackley Improved is a wildcat cartridge, so there is no SAAMI spec for maximum overall cartridge length (COAL). We chose COALs that allowed us to maximize case capacity. Check that the COALs listed for this cartridge will allow the round to fit and feed properly in your particular rifle. Shorten if necessary.

◆ Indicates most accurate load

.257 Ackley Improved

Bullet Weight: 90 gr **Case Trim Length:** 2.223" **S.D.** 0.195
Bullet Style: Banded Solid Spitzer **Primer:** Fed GM210M **B.C.** 0.325
COAL: 2.785" **Barrel Length:** 25"
Case: W-W **Twist Rate:** 1:10"

Powder	Minimum		Maximum		
	Charge (grains)	Velocity (fps)	Charge (grains)	Velocity (fps)	Load Density (%)
◆ IMR 4350	47.0	3118	51.0	3418	96
IMR 4831	48.5	3113	52.5	3371	99

Bullet Weight: 100 gr **Case Trim Length:** 2.223" **S.D.** 0.216
Bullet Style: TSX BT **Primer:** Fed GM210M **B.C.** 0.370
COAL: 2.805" **Barrel Length:** 25"
Case: W-W **Twist Rate:** 1:10"

Powder	Minimum		Maximum		
	Charge (grains)	Velocity (fps)	Charge (grains)	Velocity (fps)	Load Density (%)
◆ H4831SC	46.0	2921	51.0	3140	93
RL 22	48.0	2969	53.5	3248	98

Bullet Weight: 115 gr **Case Trim Length:** 2.223" **S.D.** 0.249
Bullet Style: TSX FB **Primer:** Fed GM210M **B.C.** 0.335
COAL: 2.825" **Barrel Length:** 25"
Case: W-W **Twist Rate:** 1:10"

Powder	Minimum		Maximum		
	Charge (grains)	Velocity (fps)	Charge (grains)	Velocity (fps)	Load Density (%)
◆ VIT N560	42.0	2692	47.0	2935	86
RL 22	45.0	2765	49.0	2972	92