

MATERIAL ANALYSIS OF COMPONENTS: METAL CHECK

Done by Chem. & Met. Lab

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	Receiver	Barrel	Trigger Guard	Flr Plate	Bolt Body	Bolt Handle	Bolt Head	Trigger Housing	Magazine Follower	Sear	Firing Pin	Firing Pin Head
BROWNING												
Hardness	Rc84	Rc24	---	---	Rc46	Rc48	Rc47	Rc38-39	---	Rc52-53	Rc29-30	Rc48-49
Material I.D. (AISI)	1050 Leaded Silicon Mod. High residual chrome & copper	4140 Leaded	Alum.	1034	15N-83 4140 Leaded	15N-82 1050 Silicon Modified	15N-84 4140	15N-84-85 1055 High Residual chrome	---	15N85-87 1045 Silicon Mod. High residual chrome	---	15N-82-88 1050 Plated
RUGER												
Hardness	Rc38	Rc22-24	---	---	Rc45	---	Rc42	Rc30	Rc51	Rc51-54 15N-80-81 8620 Case HDN.	Rc31 15N-75 6150	Rc52 15N-80 8620 Case HDN.
Material I.D.	4130	4137	Alum.	Alum.	4130	4130	4130	15N-83-88 8620 Case HDN.	15N-85 Stainless Castling Possibly 440C	---	---	---
SMITH & WESSON												
Hardness	Rc38-40	Rc28	---	No HT.T.R.	Rc47	Rc47	Rc47	Rc50	---	Rc48-49	---	Rc42-43
Material I.D.	4145	4140 High residual NL, reduced manganese	Alum.	Junk Steel	4145	4145	4145	15N-88-89 Carburized 4130 Possibly Si. modified	Austenitic stainless steel	15N-88 Carburized 1018/1020 Case HDN.	15N-88 4130 Case HDN.	15N-88 4130 Case HDN.
WINCHESTER												
Hardness	No HT.T.R.	Rc26-27	---	No HT.T.R.	Rc40-42	Rc42-44	Rc40-42	Rc50-51	---	Rc55-57	Rc40-41	Rc47-48
Material I.D.	4145 re-sulfurized	4140 re-sulfurized	Alum.	Similar to 1137	4140 re-sulfurized	4140	4140 re-sulfurized	Carburized 8620 Possibly silicon mod.	Austenitic stainless steel	10/4	6150 re-sulfurized	---
REMINGTON												
Hardness	Rc41-46	BHN 222-280 Rc24	---	---	Rc85-86	Rc85-86	---	7.2 9M /CC	R15N 88/92 .005 min. case HDN.	R15N88-82 Coln 10 _M 7.4 8 /CC	R45N41-49	---
Material	4137 Mod. or 4140	Flat Rolled Basic alloy steel; cross between 5155 & 1547	218 Alum.	218 Alum.	1137	1050	8640	HD1000	304 stainless steel	HD2020 Hard Chrome Plate	1035	1020