

MATERIAL ANALYSIS OF COMPONENTS: METAL CHECK

Done by Chem. & Met. Lab

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	Receiver	Barrel	Trigger Guard	Floor Plate	Bolt Body	Bolt Handle	Bolt Head	Trigger	Trigger Housing	Magazine Follower	Sear	Firing Pin	Firing Pin Head
<u>BROWNING</u>													
Hardness	R884	Rc24	-----	-----	Rc46 15N-83	Rc48 15N-82	Rc47 15N-84	Rc48-49 15N-84-85	Rc39-39 -----	-----	Rc52-53 15N85-87	Rc29-30 -----	Rc48-49 15N-82-88
Material I.D. (AISI)	1050 Leaded, Silicon Mod., High residual chrome & copper	4140 Leaded	Alum.	1034	4140 Leaded	1050 Silicon Modified	4140	1055 High Residual chrome	4130	Alum.	1045 Silicon Mod., High residual chroma	4340	1050 Plated
<u>RUGER</u>													
Hardness	Rc38	Rc22-24	-----	-----	Rc45	-----	Rc42	Rc39-40 15N83-88	Rc30 15N-75	Rc51 15N-85	Rc51-54 15N-90-91	Rc31 15N-75	Rc52 15N-80
Material I.D.	4130	4137	Alum.	Alum.	4130	4130	4130	8620 Case HDN.	4140 High residual Si. & Ni.	Stainless Castling Possibly 440C	8620 Case HDN.	6150	8620 Case HDN.
<u>SMITH & WESSON</u>													
Hardness	Rc38-40	Rc28	-----	No HT.TR.	Rc47	Rc47	Rc47	Rc50 15N-88-89	-----	-----	Rc48-49 15N-88-89	-----	Rc42-43 15N-88
Material I.D.	4145	4140 High residual Ni, reduced manganese	Alum.	Junk Steel	4145	4145	4145	Carburized 4130 Possibly Si. modified	Zinc?	Austenitic stainless steel	Carburized 4130	1018/1020 Case HDN.	4130 Case HDN.
<u>WINCHESTER</u>													
Hardness	No HT.TR.	Rc26-27	-----	No HT.TR.	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	1074	8150 re- sulfurized	-----
<u>REMINGTON</u>													
Hardness	Rc41-46	BHN 222-289 Rc24	-----	-----	R885-85	-----	7.2 ^{BM} /cc	R15N 88/92 .005 min. case HDN.	-----	-----	R15N88-82 Coin to 7.4 ^{BM} /cc	R45N41-49	
Material	4137 Mod. or 4140	Hot Rolled Basic alloy steel; cross between 5155 & 1547	218 Alum.	218 Alum.	1137	1050	8640	HD1000	1010 or 1020	304 stainless steel	HD2020 Hard Chrome Plate	1035	1020