Heat Treating

Outline by Jerry Fisk, Master Smith www.fisk-knives.com

5168 carbon steel Heat treat

Courtesy of Jerry Fisk

Edge hardening

(1st) Heat this area first with acetylene torch or forge fire - your choice. (The) thicker ricasso takes Longer to heat up than the cutting edge.)

fire move blade back and forth.

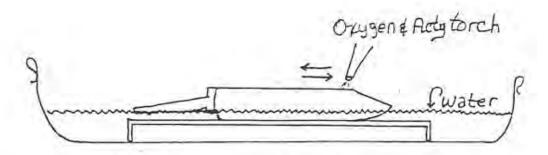
heated area you may need to provide an air source to forge. The heated area must be brought to a non-magnetic stage. Apport

Lift with tongs to grench tip

PLatform

Oil level appox. 1/4" above plat form heigh (appox 2" deep)

Rock back and forth (Tipto Ricasso until 100°F-200°F



Water level to be about "4" deep on cutting edge. - Bring spine color to dark blue 3times. Blue color will stop appox "4" above water line. Keep an eye on the water level if it starts dropping add a small amount of water to keep the proper level.

Stop torch a couple of inches short of where Knife point starts coming out of the water. work toward tip carefully with torch tip pointed toward ricasso. You may need to just "brush" tip when you get close, stop when 1/2" to 1" from tip de pending on Knife.

Do not bring spine of chrome steels to red color - this will air harden.

when finished with this you are ready to grind the cutting edge.

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