

SK85 Information

1. About SK85

- Features

SK85 is basic Tool carbon steel. This grade can use wide usage of products which are knife for need sharpen and fine cutting, blade, tool, abrasion and spring part (for Automotive part & Industrial machine part).

- Composition

SK85 is C=0.85% and ideal of hardening ability.

- Finish

Hot Rolled : Standard finish is Pickled & Annealed for pressing and cutting.

Cold Rolled : Annealing after cold rolled and skinpass for smooth surface.

Cold Rolled is improved pressing and can be right angle of bending.

- Supply

We have supply source from Nippon Steel (before : Nisshin steel) and we also have supply source from Taiwan and Korea makers.

2. Chemical composition

- For example of SK85 (Nippon Steel)

C	Si	Mn	P	S	(others)
0.86	0.20	0.43	0.014	0.002	other chemicals

- For example of SK85 (CSC)

C	Si	Mn	P	S	(others)
0.84	0.20	0.35	0.014	0.002	other chemicals

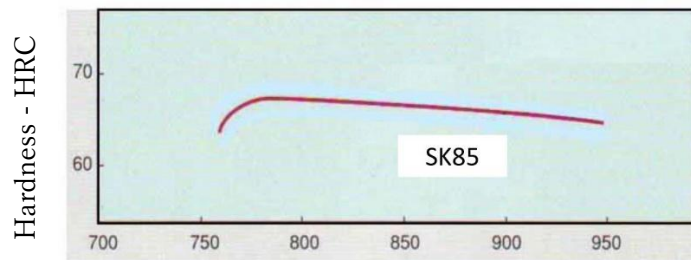
3. Material hardness

- For example of SK85 hardness

Maker	Hardness	Finish	Specification
Nippon Steel	HRB90	Hot rolled	Pickled & Annealed
Nippon Steel	HRB84	Hot rolled	Pickled & Annealed (Extra soft)
Nippon Steel	Hv180	Cold rolled	Annealing & Skinpass bright
CSC	HRB85	Hot rolled	Pickled & Annealed (Spheroidized)
CSC	HRB82	Cold rolled	Annealing & Skinpass

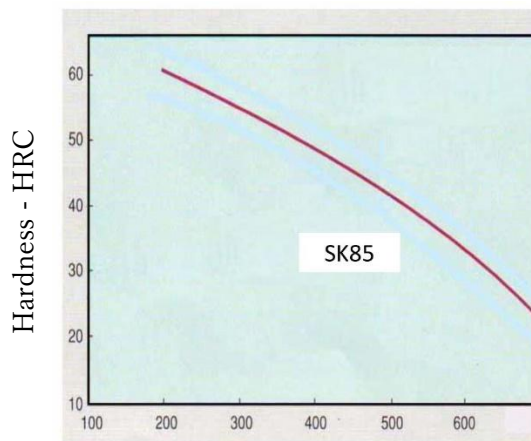
4. Heat Treatment

Grade	Water Quenching Temperature (°C) – Hardness	Oil Quenching Temperature (°C) – Hardness
SK85	760~820 – Min HRC62	770~830 – Min HRC60

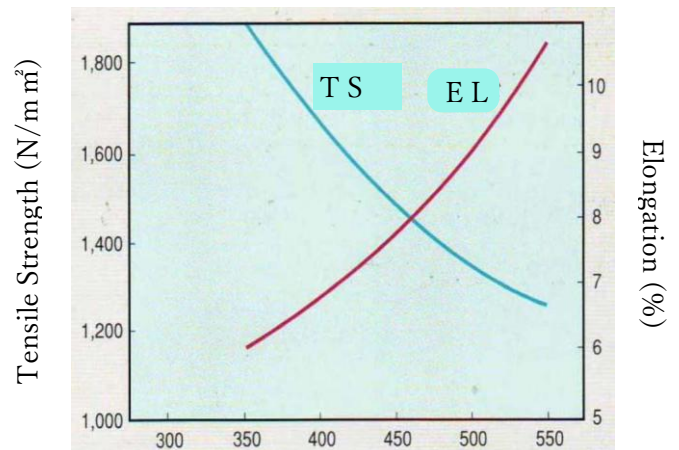


焼入硬度(°C)

5mins Oil Quenching
Thickness : 2.5mm



Tempering (°C)



Tempering (°C)

Hardening : 830°C Oil Quenching Tempering : 15mins cool by room temperature

5. Usage

Knife, Circular Blade, Thrust plate, Stopper, Clamp, Washer and other various parts.