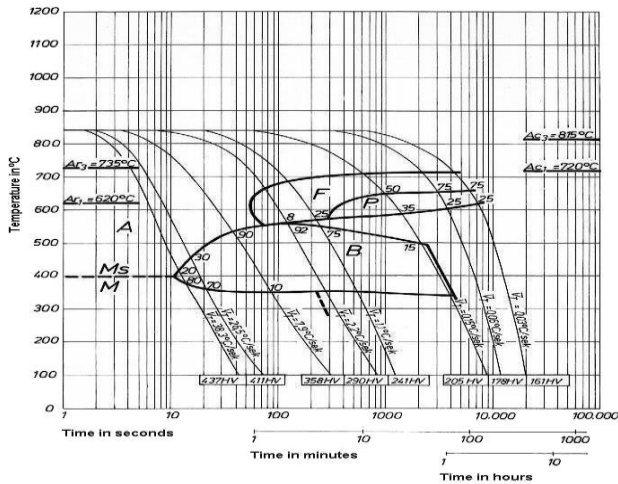


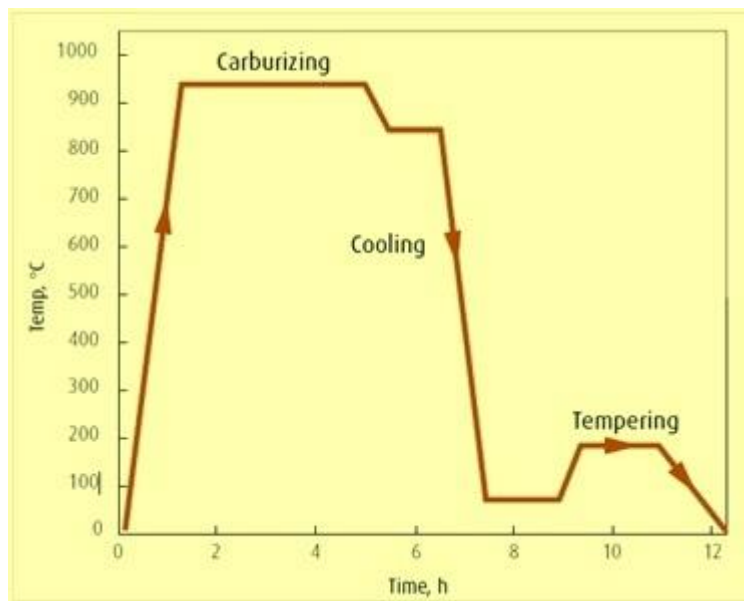
SSA5919

Trade Name	Technical Delivery Condition	Annealed Hardness	Typical Chemical Composition				
			C	Si	Mn	Cr	Ni
SSA5919	Annealed	217 HB	0.14 – 0.19	≤ 0.28	0.40 – 0.60	1.40 – 1.70	1.40 -1.70

Werkstoff	DIN standard	AISI	BS	JIS	SIS	UNI
1.5919	15CrNi6	3215	S107		2511	16CrNi4



TTT Graph



Carburizing sequence

Type of steel and characteristics:

Low alloyed chromium nickel case hardening steel.

Applications:

Components with large cross sections, requiring high toughness and core strength, such as gears, crankshafts and heavy duty gear shafts in aircraft and truck construction and mechanical engineering.

Heat Treatment:

Hot Forging	1150 - 850°C
Normalizing	850 - 880°C
Soft Annealing	650 - 700°C
Carburizing	880 - 980°C oil
Intermediate Annealing	630 - 650°C
Core Hardening	830 - 870°C
Case Hardening	780 – 820°C
Quenchant	Oil, water, salt bath
Tempering	150 - 200°C