

Cryodur 1730

C45U

C 0.45 Si 0.20 Mn 0.70

Steel properties Shell-hardenable steel featuring hard surface and tough core.

Standards AISI 1045

Applications Components for tools (e.g. base plates for plastic moulds and pressure casting moulds). Also suitable for hand tools, pliers and agricultural tools of all kinds.

Heat treatment	Soft annealing °C 680 – 710	Cooling Furnace	Hardness HB max. 207		
	Stress-relief annealing °C approx. 600 – 650	Cooling Furnace			
	Hardening °C 800 – 830	Quenching Water	Hardness after quenching HRC 57		
Tempering °C HRC	100 57	200 54	300 49	350 42	

Tempering diagram

