

8620 Case hardening steel

Typical Analysis (Ave. values %)	C	Si	Mn	Cr	Ni	Mo
	0.20	0.25	0.8	0.50	0.50	0.20
NEAREST STANDARD	BS			SAE		
	EN 362			8620H		

DESCRIPTION	8320 is a balanced low nickel/chromium and molybdenum general purpose case hardening steel, suitable for comparatively light stressed components.
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APPLICATIONS	Used extensively in automotive components such as transmission gears, crown wheel, ring gears, hypoid gears and races, king pins and pinions.
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MECHANICAL PROPERTIES Heat Treated Condition	Tensile Strength MPa	Elong. %	Izod Impact J
	850	11	20

HEAT TREATMENT	Forge	850-1150°C. Cool in lime, sand or ash.
	Normalize	850-880°C. Air cool.
	Anneal	850°C. Cool slowly in a controlled furnace
	Carburize	850-930°C. Furnace or Air cool.
	Core Refine	850-880°C. Oil quench or Air cool

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WELDING	8620 should only be welded in the annealed condition using Bohler DCMS Kb electrodes or DCMS-IG MIG wire
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Round Peeled & Polished h9/h10										
SIZE RANGE	35	42	52	60	70	80	90	100	110	130
	40	50	55	65	75	85	95	105	120	140

Sizes normally stocked in Australia. Some branches may not hold the entire range.
Other sizes available on request.

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