

CASE HARDENING STEEL SUMMARY OF GRADES

GRADE TO AS1444-2007	CHEMICAL COMPOSITION							
	C%	Si%	Mn%	P%	S%	Cr%	Mo%	Ni%

8620	0.18	0.10	0.70	-	-	0.40	0.15	0.40
	0.23	0.35	0.90	0.04	0.04	0.60	0.25	0.70

TYPICAL APPLICATIONS

Low Case hardening steel with strict analytical limits for production case hardened parts such as automotive gears and bearing races.

8620H	0.17	0.10	0.60	-	-	0.35	0.15	0.35
	0.23	0.35	0.95	0.04	0.04	0.65	0.25	0.75

TYPICAL APPLICATIONS

Same as 8620. The "H" guarantees hardenability.

EN36A (655M13)	0.10	0.10	0.35	-	-	0.70	-	3.00
	0.16	0.35	0.60	0.04	0.04	1.00	-	3.75

TYPICAL APPLICATIONS

An excellent general purpose case hardening steel combining good toughness of core and high case hardness after carburising and quenching. Jobbing gears, mining equipment, pins and bushes.

1.6587 (17&18CrNiMo6)	0.15	0.10	0.40	-	-	1.50	0.25	1.40
	0.20	0.35	0.60	0.04	0.04	1.80	0.35	1.70

TYPICAL APPLICATIONS

Similar applications to X3312 (EN36A) and is especially suited to larger gears requiring deep case depths.

EN39B	0.12	0.10	0.25	-	-	1.00	0.15	3.90
	0.18	0.35	0.50	0.04	0.04	1.40	0.30	4.30

TYPICAL APPLICATIONS

A high core strength case hardening steel. Used for highly stressed gears, pins and axles.