



**ALLOY STEELS**

**709M40 (EN19)** Colour code: White/brown x **Black Heat Treated 55/65 ton**  
**(849/1003 Mpa)** *limited ruling section 102 mm* *1 % Chrome Moly Steel*

C	Si	Mn	Cr	Mo
0.35-0.45	0.05-0.5	0.50-0.80	0.90-1.50	0.20-0.40

**817M40 (EN24)** Colour code: White/yellow x **Black Heat Treated 55/65 ton**  
**(849/1003 Mpa)** *limited ruling section 254 mm* *1¼ % Nickel Chrome Moly steel*

C	Si	Mn	Ni	Cr	Mo
0.35-0.45	0.10-0.35	0.45-0.70	1.30-1.80	0.90-1.40	0.20-0.35

**835M30 (EN30B)** Colour code: all yellow **Black Annealed –Treatable to 100 ton**  
**(1540 Mpa min in Heat Treated condition)** *lrs 152 mm* *4¼ % Nickel Chrome Steel*

C	Si	Mn	Ni	Cr	Mo
0.26-0.34	0.10-0.35	0.40-0.60	3.90-4.30	1.10-1.40	0.20-0.40

**655M13 (EN36B)** Colour code: White/Green x **Black Case Hardening Steel**  
**(1000 Mpa min) 30 Joule min Elongation 9% min** *3% Nickel-Chromium Steel*

C	Si	Mn	Ni	Cr
0.12-0.18	0.10-0.35	0.30-0.60	3.00-3.75	0.60-1.10

**All of the above grades have maximum** 0.05% Sulphur and 0.5 % Phosphorus

**BLACK BAR STOCK SIZES**

20	25	30	35	40	45	50	60	65	70	75	80	85	90	95	100
103	108	115	120	130	140	150	160	170	180	190	203	210	215	220	230
240	250	260	270	280	290	305	310	320	340	350	360	370	380	390	405

**NON-STANDARD SIZES AND DIFFERENT HEAT TREATMENT  
CONDITIONS AVAILABLE UPON REQUEST**

**A 6% allowance from black size to finished size must be allowed to ensure clean up  
and to prevent problems in heat treatment.**