

## REINFORCING DEFORMED STEEL BARS GRADES 460B - B500B - B500C

### CHEMICAL COMPOSITION

STANDARD		GRADE	Composition chimique					
COUNTRY	SPECIFICATION		Analyse sur coulée % max (en masse)					
			C	P	S	Cu	N	CEV
United Kindom	BS 4449:1997	Grade 460 B	0,25	0,05	0,05	-	0,012	0,51
United Kindom	BS 4449:2005	Grade B 500 B	0,22	0,05	0,05	0,8	0,012	0,5
United Kindom	BS 4449:2005	Grade B 500 C	0,22	0,05	0,05	0,8	0,012	0,5

With:  $CEV = C + \frac{Mn}{6} + \frac{Cr+Mo}{5} + \frac{V}{15} + Ni + Cu$

### MECHANICAL CHARACTERISTICS

STANDARD		GRADE	Re,nom(MPa)			Rm,nom/Re,nom		
COUNTRY	SPECIFICATION		Value	Value	Value	Value	Value	Value
			Charact.	min	max.	Charact.	min	max.
United Kindom	BS 4449:1997	Grade 460 B	460	460	-	1,08	1,08	-
United Kindom	BS 4449:2005	Grade B 500 B	500	485	650	1,08	1,06	-
United Kindom	BS 4449:2005	Grade B 500 C	500	485	650	1,15-1,35	1,13	1,38

Re,nom Yield strength determined using nominal steel cross-section  
Rm,nom Tensile strength determined using nominal steel cross-section

### MECHANICAL CHARACTERISTICS

STANDARD		GRADE	Agt (%)		A5d (%)	
COUNTRY	SPECIFICATION		Value	Value	Value	Value
			Charact.	min	Charact.	min
United Kindom	BS 4449:1997	Grade 460 B	5	5	14	14
United Kindom	BS 4449:2005	Grade B 500 B	5	4	-	-
United Kindom	BS 4449:2005	Grade B 500 C	7,5	6	-	-

Agt Total percent elongation under maximum force  
A5d Percent elongation after rupture determined on specimen length between marks equal to 5.d  
A10d Percent elongation after rupture determined on specimen length between marks equal to 10.d

PRODUCT CERTIFIED IN FRANCE, GERMANY, UNITED KINGDOM  
CERTIFICATIONS ISO 9001 | BS OHASAS 18001 | ET ISO 14001 | AFCAB

RANGE OF DIAMETERS

6 - 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 25 - 28 - 32 - 40

PACKAGING

LENGTH OF BARS 6 M TO 24 M - Ø 6 - 40 MM  
USUAL TOLERANCES LENGTH -0/+100 MM / STANDARD LENGTH BARS 12 M  
PACK WEIGHT 2.500 KG

GRADE | B500B

MARKING / LABELING

