



DEFORMED BAR
Dimensions and Properties



TIS 24-2548
Grade : SD30, SD40, SD50



NOMINAL SIZES AND UNIT WEIGHT

Designation Diameter (mm.)	Designation Diameter (mm.)	Cross Sectional Area (cm ²)	Unit Weight (kg./m.)	Tolerance Unit Weight/m.
DB6	6	0.222	0.283	± 0.08
DB8	8	0.395	0.503	
DB10	10	0.616	0.785	
DB12	12	0.888	1.131	± 0.06
DB16	16	1.578	2.011	
DB20	20	2.466	3.142	
DB22	22	2.984	3.801	± 0.05
DB25	25	3.853	4.909	
DB28	28	4.834	6.158	
DB32	32	6.313	8.042	± 0.04
DB36	36	7.990	10.178	
DB40	40	9.865	12.566	

PHYSICAL PROPERTIES

Grade	Yield Strength not less than (Mpa)	Tensile Strength not less than (Mpa)	Elongation not less than (%)	Cold Bend Test	
				Bending Angle	Diameter of Mandrel
SD30	295	480	17	180	3, 4 times of diameter
SD40	390	560	15	180	5 times of diameter
SD50	490	620	13	180	5, 6 times of diameter

CHEMICAL COMPOSITION (%)

Grade	Carbon (C)	Manganese (Mn)	Phosphorus (P)	Sulphur (S)	Carbon + Mn (C+Mn)
SD30	0.27	-	0.05	0.05	0.50
SD40	-	1.80	0.05	0.05	0.55
SD50	-	1.80	0.05	0.05	0.60