



MSP GROUP

16/S, Block 'A' New Alipore, Kolkata 700 053
 Phone: (033) 2457 0038 / 3940 Fax: (033) 2458 2239

CONSTRUCTIONS BARS (TMT)

Comparative Chart with ISI Standard							
ISI Standard				MSP Gold TMT Standard			
Size	Specified weight gm/m	Tolerance Limit gm/m	Permissible Wt. Variation gm/m	Indv. Sample % Variation	Weight Tolerance gm/m	Weight Variation gm/m	Indv. Sample % Variation
8mm	395	367 - 423	56	± 7	370 - 402	32	± 4
10mm	617	574 - 660	86	± 7	578 - 616	38	± 3
12mm	888	844 - 932	88	± 5	856 - 892	36	± 2
16mm	1578	1500 - 1657	158	± 5	1528 - 1592	64	± 2
20mm	2470	2396 - 2544	148	± 3	2435 - 2485	50	± 1
25mm	3850	3735 - 3965	230	± 3	3798 - 3876	78	± 1
32mm	6310	6121-6499	378	±3	6247-6373	126	±1
42mm							



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Mechanical Properties						
Test	ISI Standard			MSP Gold TMT Standard		
	Fe 415	Fe 500	Fe 550	415	500	550
Yield Strength (0.2% proof test)	415 N/mm ²	500 N/mm ²	550 N/mm ²	480 N/mm ²	530 N/mm ²	575 N/mm ²
Tensile Strength (UTS)	485 N/mm ²	545 N/mm ²	585 N/mm ²	550 N/mm ²	600 N/mm ²	⁶⁶⁰ N/mm ²
% Elongation min.	14.5%	12%	8%	19%	18%	11%
Bend Test	Upto and Incl. Over		22mm 3D 22mm 3D	Satisfies Bend Test		
Rebend Test	Upto and Incl. Over		10mm 5D 10mm 7D	Satisfies Re-bend Test		