



FOREVER WITH YOU

SHAURYA ISPAT UDYOG PVT. LTD.

Process Control Parameter Sheet

Grade:-Fe-415,Fe-500 & Fe-500D

TMT BAR Size	Standard	Grade	PHYSICAL PROPERTIES												
			Yield Strength N/mm ²		Tensile Strength N/mm ²	Elongation%	Total Elongation%	TS/YS Ratio	Medral Diameter		Mass - Kg/mtr				Mean Project of Rib Area
			Min	Max	Min	Min	Min	Min	Bend	Re-bend	Tolerance	Std.	Min	Max	Min
06MM	IS 1786:2008	Fe-415	415	-	485	14.5	-	1.17	3D	5D	±7%	0.222	0.206	0.238	0.720
	Shaurya TMT		450	500	520	20	-	1.20	2D	4D			0.210	0.222	0.900
	IS 1786:2008	Fe-500	500	-	545	12	-	1.09	4D	5D			0.206	0.238	0.720
	Shaurya TMT		510	590	600	17	-	1.17	3D	4D			0.210	0.222	0.900
	IS 1786:2008	Fe-500D	500	-	565	16	5	1.13	3D	4D			0.206	0.238	0.720
	Shaurya TMT		520	590	600	18	6	1.17	2D	3D			0.210	0.222	0.900
08MM	IS 1786:2008	Fe-415	415	-	485	14.5	-	1.17	3D	5D	±7%	0.395	0.367	0.423	0.960
	Shaurya TMT		450	500	520	20	-	1.20	2D	4D			0.370	0.395	1.200
	IS 1786:2008	Fe-500	500	-	545	12	-	1.09	4D	5D			0.367	0.423	0.960
	Shaurya TMT		510	590	600	17	-	1.17	3D	4D			0.370	0.395	1.200
	IS 1786:2008	Fe-500D	500	-	565	16	5	1.13	3D	4D			0.367	0.423	0.960
	Shaurya TMT		520	590	600	18	6	1.17	2D	3D			0.370	0.395	1.200
10MM	IS 1786:2008	Fe-415	415	-	485	14.5	-	1.17	3D	5D	±7%	0.617	0.574	0.660	1.200
	Shaurya TMT		450	500	520	20	-	1.20	2D	4D			0.575	0.617	1.500
	IS 1786:2008	Fe-500	500	-	545	12	-	1.09	4D	5D			0.574	0.660	1.200
	Shaurya TMT		510	590	600	17	-	1.17	3D	4D			0.575	0.617	1.500
	IS 1786:2008	Fe-500D	500	-	565	16	5	1.13	3D	4D			0.574	0.660	1.200
	Shaurya TMT		520	590	600	18	6	1.17	2D	3D			0.575	0.617	1.500
12MM	IS 1786:2008	Fe-415	415	-	485	14.5	-	1.17	3D	7D	±5%	0.888	0.844	0.932	1.800
	Shaurya TMT		450	500	520	20	-	1.20	2D	6D			0.845	0.888	2.100
	IS 1786:2008	Fe-500	500	-	545	12	-	1.09	4D	7D			0.844	0.932	1.800
	Shaurya TMT		510	590	600	17	-	1.17	3D	6D			0.845	0.888	2.100
	IS 1786:2008	Fe-500D	500	-	565	16	5	1.13	3D	6D			0.844	0.932	1.800
	Shaurya TMT		520	590	600	18	6	1.17	2D	5D			0.845	0.888	2.100
16MM	IS 1786:2008	Fe-415	415	-	485	14.5	-	1.17	3D	7D	±5%	1.580	1.500	1.659	2.400
	Shaurya TMT		450	500	520	20	-	1.20	2D	6D			1.520	1.580	2.800
	IS 1786:2008	Fe-500	500	-	545	12	-	1.09	4D	7D			1.500	1.659	2.400
	Shaurya TMT		510	590	600	17	-	1.17	3D	6D			1.520	1.580	2.800
	IS 1786:2008	Fe-500D	500	-	565	16	5	1.13	3D	6D			1.500	1.659	2.400
	Shaurya TMT		520	590	600	18	6	1.17	2D	5D			1.520	1.580	2.800
20MM	IS 1786:2008	Fe-415	415	-	485	14.5	-	1.17	3D	7D	±3%	2.470	2.395	2.544	3.400
	Shaurya TMT		450	500	520	20	-	1.20	2D	6D			2.420	2.470	3.800
	IS 1786:2008	Fe-500	500	-	545	12	-	1.09	4D	7D			2.395	2.544	3.400
	Shaurya TMT		510	590	600	17	-	1.17	3D	6D			2.420	2.470	3.800
	IS 1786:2008	Fe-500D	500	-	565	16	5	1.13	3D	6D			2.395	2.544	3.400
	Shaurya TMT		520	590	600	18	6	1.17	2D	5D			2.420	2.470	3.800
25MM	IS 1786:2008	Fe-415	415	-	485	14.5	-	1.17	4D	7D	±3%	3.850	3.735	3.966	4.250
	Shaurya TMT		450	500	520	20	-	1.20	3D	6D			3.800	3.850	4.800
	IS 1786:2008	Fe-500	500	-	545	12	-	1.09	5D	7D			3.735	3.966	4.250
	Shaurya TMT		510	590	600	17	-	1.17	4D	6D			3.800	3.850	4.800
	IS 1786:2008	Fe-500D	500	-	565	16	5	1.13	4D	6D			3.735	3.966	4.250
	Shaurya TMT		520	590	600	18	6	1.17	3D	5D			3.800	3.850	4.800
28MM	IS 1786:2008	Fe-415	415	-	485	14.5	-	1.17	4D	7D	±3%	4.830	4.685	4.975	4.760
	Shaurya TMT		450	500	520	20	-	1.20	3D	6D			4.700	4.830	5.100
	IS 1786:2008	Fe-500	500	-	545	12	-	1.09	5D	7D			4.685	4.975	4.760
	Shaurya TMT		510	590	600	17	-	1.17	4D	6D			4.700	4.830	5.100
	IS 1786:2008	Fe-500D	500	-	565	16	5	1.13	4D	6D			4.685	4.975	4.760
	Shaurya TMT		520	590	600	18	6	1.17	3D	5D			4.700	4.830	5.100
32MM	IS 1786:2008	Fe-415	415	-	485	14.5	-	1.17	4D	7D	±3%	6.310	6.121	6.499	5.440
	Shaurya TMT		450	500	520	20	-	1.20	3D	6D			6.200	6.310	6.000
	IS 1786:2008	Fe-500	500	-	545	12	-	1.09	5D	7D			6.121	6.499	5.440
	Shaurya TMT		510	590	600	17	-	1.17	4D	6D			6.200	6.310	6.000
	IS 1786:2008	Fe-500D	500	-	565	16	5	1.13	4D	6D			6.121	6.499	5.440
	Shaurya TMT		520	590	600	18	6	1.17	3D	5D			6.200	6.310	6.000

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