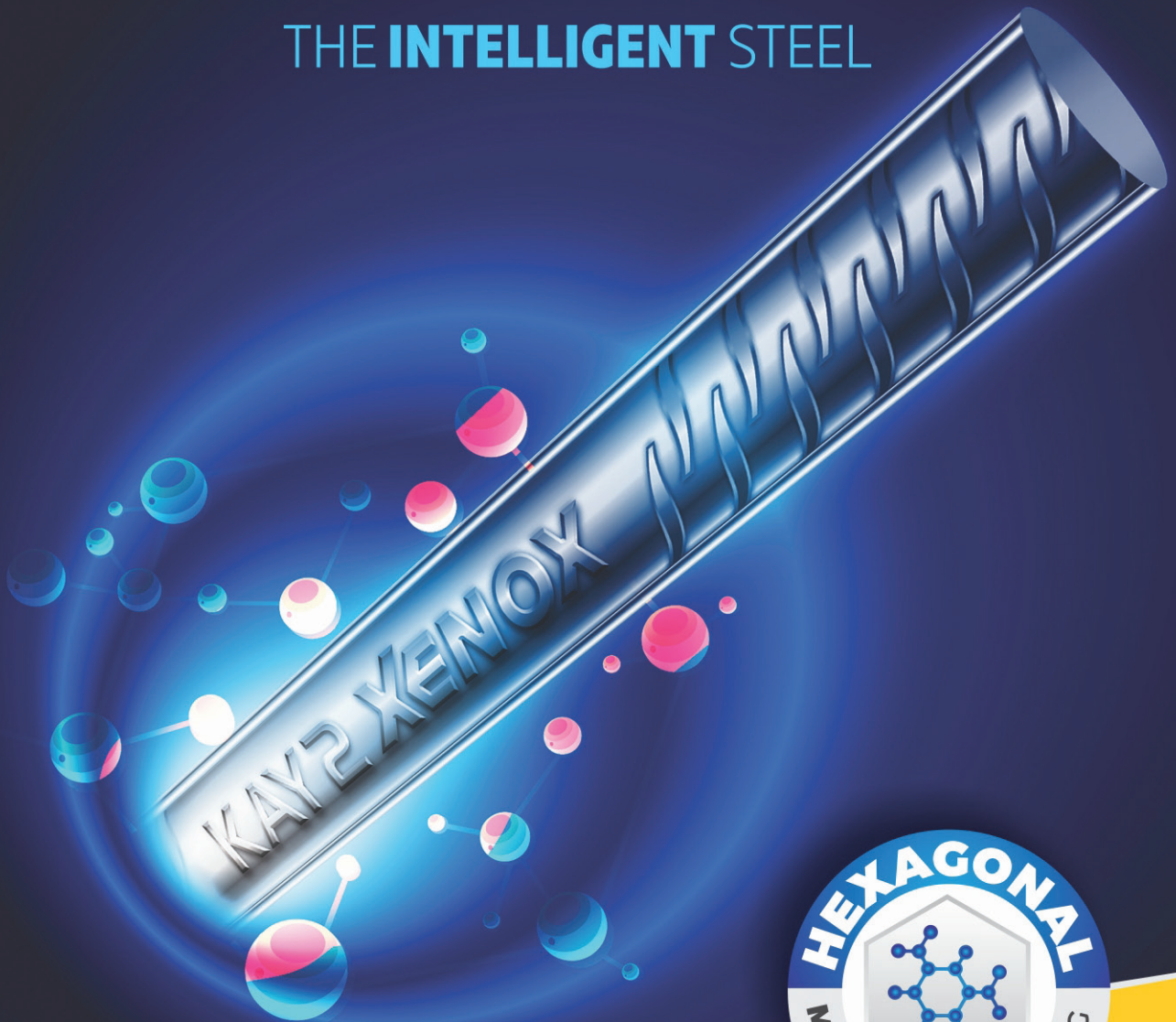


# Kay2 XENOX

THE INTELLIGENT STEEL



Kay2  
**XENOX**

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# Kay2

## XENOX

THE INTELLIGENT STEEL



Kay2 Xenox's unique rib design strongly bonds with concrete in a Hexagonal pattern and ensures a solid foundation and quality of any structure.

As modern construction requires a higher degree of innovation and creativity, Kay2 Steel provides premium TMT Bars crucial for construction across earthquake-prone areas.

The total of the internal angles of a Hexagon is 720-degree meant for superior bonding and enabling any infrastructure to tolerate a high degree of stress.

### Chemical Composition of KAY 2 XENOX TMT Bars:-

S.No	CONSTITUENT	MAXIMUM					
		IS:1786	KAY2 XENOX	IS:1786	KAY2 XENOX	IS:1786	KAY2 XENOX
		Fe-500	Fe-500	Fe-500D	Fe-500D	Fe-550	Fe-550
1	Carbon%	0.30	0.25	0.25	0.23	0.30	0.25
2	Sulphur%	0.055	0.050	0.040	0.035	0.055	0.050
3	Phosphorus%	0.055	0.050	0.040	0.035	0.055	0.050
4	S+P%	0.105	0.100	0.075	0.070	0.100	0.095
5	Carbon Equivalent%	—	—	0.50	0.40	—	—
6	Nitrogen%	0.012	0.010	0.012	0.010	0.012	0.010

\*As contained in 90% of heat



*The hexagonal structure has high bond energy making the molecule less reactive & more stable.*



*Close ribbed design structure increases the strength to bear the overall weight*



*Proper splicing rib design of the bars maintain the integrity of the structure when subjected to high shear & splitting stress.*



*The added strength & solidity is evident during high magnitude seismic shocks*

### Mechanical Properties of KAY2 XENOX TMT Bars:-

S.No	Properties	Unit	IS: 1786 Fe-500	KAY2 XENOX (Fe-500)	IS: 1786 Fe-500D	KAY2 XENOX (Fe-500D)	IS: 1786 Fe-550	KAY2 XENOX (Fe-550)
1	Yield Stress (Min.)	N/mm <sup>2</sup>	500	530.0	500.0	530.0	550.0	565.0
2	Tensile Strength (Min.)	N/mm <sup>2</sup>	545	600.0	565.0	610.0	585.0	610.0
3	TS/YS Ratio	Ratio	≥ 1.08	≥ 1.10	≥ 1.10	≥ 1.12	≥ 1.06	≥ 1.08
4	Elongation (Min.)	%	12	16.0	16.0	18.0	10.0	14.0
5	Uniform Elongation (Min.)	%	—	—	5.0	6.0	—	—
6	Bend Test a) Upto & Including 20 mm b) Over 20 mm	Mandrel dia (in mm), ø-dia of bar	4ø 5ø	3ø 4ø	3ø 4ø	2ø 3ø	5ø 6ø	4ø 5ø
7	Re-Bent Test a) Upto & Including 10 mm b) Over 10 mm	Mandrel dia (in mm), ø-dia of bar	5ø 7ø	4ø 6ø	4ø 6ø	3ø 5ø	7ø 9ø	6ø 8ø

\*As contained in 90% of heat



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