

Alloy Steel and Die Steel Rods					
Sr. #	DESCRIPTION	SIZES	QTY.	UNITS	Approx. Weight (Kg)
1	Alloy Steel AISI-4340 full Annealed	Ø30mm x 6m	8	Nos.	266
2		Ø50mm x 6m	8		739
3		Ø100mm x 6m	4		1479
4		Ø150mm x 3m	4		1664
5		Ø200mm x 3m	4		2958
6	Die Steel AISI-D2 Full Annealed	Ø30mm x 6m	8		271
7		Ø50mm x 6m	8		754
8		Ø100mm x 6m	4		1507
9		Ø150mm x 3m	4		1696
10		Ø200mm x 3m	4		3014

Chemical Composition (AISI-4340)								
Element	C	Mn	P (Max)	S (Max)	Si	Ni	Cr	Mo
Content (Max. %age)	0.38- 0.43	0.60- 0.80	0.030	0.04	0.15-0.35	1.65-2.00	0.70-0.90	0.20-0.30

Mechanical Properties (AISI-4340)		
1	Tensile Strength (MPa)	930-1000
2	Yield Strength (MPa)	730-880
3	Elongation (%)	17
4	Hardness (HB)	275-295

Chemical Composition (AISI-D2)								
Element	C	Mn	Si	P	S	Cr	Mo	V
Content (Max. %age)	1.4-1.6	0.60	0.30	0.03	0.03	11.13	0.75	0.90

Mechanical Properties (AISI-D2)		
1	Hardness in Annealed condition (HB)	250 Max.
2	Hardness in heat treated condition (HRC)	56-60
3	Compression Yield Strength (MPa)	2000-2150

Note:

- ❖ All rods must be hot rolled and full annealed.
- ❖ Material must have proper composition & Mechanical Properties as per Standard.
- ❖ Material Test Certificate (MTC) must be provided at the time of inspection & delivery.
- ❖ Buyer will test the material by taking test pieces from randomly selected rods/bars before dispatch. Material will be rejected, if not found according to Standard.
- ❖ Rods must be straight, free from cut/dents and have no pitting.
- ❖ Rods must be shear in proper size at manufacturer premises (Gas Cutting is not acceptable in any case).
- ❖ Designation and size of material must be printed on the surface of each rod.