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Chapter 3

Composite Insulator Material

3.3.1 Casting Steel

By Orient Power

Casting Steel End Fitting



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🚦 Definition:

Casting is the process where metal is heated until molten. While in the molten or liquid state it is poured into a mold or vessel to create a desired shape.

🚦 Forming Process:

The steel should be melted first and cast it constantly to become a mold, rather than working while it was solid.

🚦 Properties:

Advantages:

- Good wear resistance and vibration absorbers.
- Easy to produce
- With excellent working process
- Relatively low cost

Disadvantages:

- Cold cracking, thermal cracking
- White spots, cold traps
- Heat treatment crack
- Dimensions and weight deviation,
- Distortion, wrong type
- Shrinkage, loose

🚦 Application:

For general GET as well as large and complex components - casting is a fantastic method of manufacture.