

# ITI Workshop calculation and Science

## Important Definitions (महत्वपूर्ण परिभाषाएं)

- 1. ठोस (Solid):** ठोसों का आकार और आयतन निश्चित होता है। जैसे – पत्थर, लोहा, कार्क आदि।
- 2. तरल (Liquid):** तरल पदार्थों का आयतन तो निश्चित होता है परन्तु आकार निश्चित नहीं होता है। वे बह (Flow) सकते हैं। जैसे – तेल, पानी, दूध आदि।
- 3. गैस (Gas):** इनका आयतन व आकार निश्चित नहीं होता है। जैसे ऑक्सीजन, हाइड्रोजन आदि।
- 4. यौगिक (Compound):** जब दो या दो से अधिक तत्वों को किसी भी रासायनिक क्रिया द्वारा निश्चित अनुपात में मिला दिया जाये तो प्राप्त हुए नए पदार्थ को यौगिक कहते हैं। इसमें मूल तत्वों को देख नहीं सकते हैं तथा उनके गुण भी बदल जाते हैं। जैसे – पानी, नमक आदि।
- 5. मिश्रण (Mixture):** जब दो या दो से अधिक तत्वों को साधारण प्रक्रिया द्वारा बिना अनुपात में मिला दिया जाये तो प्राप्त हुआ पदार्थ मिश्रण कहलाता है। मिश्रण में इसके मूल तत्वों को आसानी से देखा जा सकता है।
- 6. लचीलापन (Elasticity):** यदि किसी धातु पर बल लगाया जाये और उसके आकार में परिवर्तन हो जाये और बल हटाने पर धातु अपने मूल आकार में आ जाये तो इस गुण को लचीलापन कहते हैं।
- 7. Plasticity:** धातुओं पर लगा बल हटाने पर यदि धातु मूल आकार में न आवे तो ऐसे गुण को प्लास्टिसिटी कहते हैं। ऐसी धातुओं को दबाकर उनका आकार बदला जाता है।
- 8. तन्वता (Ductility):** धातुओं का गुण जिसके कारण इनके तार खींचे जा सकें, तन्वता कहलाती है।
- 9. अपत्याध्वर्यता (Malleability):** धातुओं का गुण जिसके कारण उन्हें पीटकर या रोलिंग चादरों (Sheets) में बदला जा सके, अपत्याध्वर्यता कहलाता है।
- 10. कडापन (Hardness):** ऐसा गुण जिसके कारण धातुएं दूसरी धातुओं पर खरोंच डाल देती हैं या उन्हें घिसा देती हैं।
- 11. भंगुरता (Brittleness):** चोट मारने पर धातु यदि टूट कर बिखर जाये तो वह गुण भंगुरता कहलाता है।
- 12. Weldability:** वह गुण जिसके कारण धातुओं को आसानी से वेल्डिंग द्वारा जोड़ा जा सकता है।
- 13. लो कार्बन स्टील (Low Carbon Steel):** इसको माइल्ड स्टील भी कहते हैं, हम आईटीआई में जिस धातु की प्लेट से जोड़ बनाने हैं उसे ही लो कार्बन स्टील या माइल्ड स्टील या MS प्लेट कहते हैं। इसमें कार्बन की मात्रा 0.25% तक होती है। इसकी फोर्जिंग, वेल्डिंग तथा मशीनिंग आसानी से की जा सकती है। यह मैकिणकल व इन्स्ट्रुमल होता है। इसे हार्ड और टेम्पर नहीं किया जा सकता है परन्तु इसकी केस हार्डनिंग की जा सकती है।
- 14. मीडियम कार्बन स्टील:** इसमें कार्बन की मात्रा 0.25% से 0.70% होती है। इसका प्रयोग तार, पाइप, छोटे एक्सेल, साधारण हाथ के औजार, स्ट्रिंग आदि बनाने में किया जाता है।
- 15. हाई कार्बन स्टील:** इसमें कार्बन की मात्रा 0.70% से 1.5% तक होती है। इसे हार्ड और टेम्पर किया जा सकता है। इसका प्रयोग छेनी, रेती, डार्ट, ड्रिल, शाफ्ट आदि बनाने में किया जाता है।

# Iti Workshop Calculation Science Paper

**Jicheng Xie**



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