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Diamond Industry ABC Guide on Synthetic Vs Natural Diamonds:

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Origin of Synthetic Diamonds

- The discovery of Synthetic diamonds came into existence between 1879 and 1928.
- The first reproducible Synthetic came was reported in 1953.
- Synthetics are often known as “Man-made Diamonds”
- Cubic Zirconia’s are said to be cheaper than real diamonds and are usually purchased by those who want a 100% conflict free product.
- “Lust” is usually associated with Synthetics

Methods used to create Synthetics

Chemical vapor deposition

- In this method diamonds are grown from a hydrocarbon gas mixture
- The flexibility and simplicity of CVD setups explain the popularity of CVD growth in laboratory research
- This allows for the ability of fine control over the chemical impurities and thus properties of the diamond produced.

High pressure, high temperature

- This was the original method used to create Synthetics

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- The ability for mass-production of high-quality diamond crystals make the HPHT process the more suitable choice for industrial applications
- The HPHT method is still used widely today, due to the low costs involved.

Natural Diamonds:

- These diamonds are formed in the earth more than 3 billion years ago.
- The inclusions and surface features of these stones occur during the transportation to the surface of the earth.
- A feature of a natural diamond is that they contain fluorescences this helps distinguish them from synthetics.
- The models in which natural rough diamonds are found are formed naturally; this means no 2 diamonds are the same.

Why should you buy a natural diamond instead of a Synthetic:

- They are real and not fake
- You are guaranteed a return on your investment in a natural diamond
- They are harder than a Synthetic diamond
- Natural Diamonds are often associated with love and a long term commitment.