The chemistry is adjusted to exact chemical compositions through any of the second refining processes. The refined steel is solidified, typically by continuous casting machines. The solidified steel is further processed into semi-finished and finished product by various rolling and finishing processes. The finished product is utilized by the many manufacturers that incorporate steel in their products.

The Making, Shaping and Treating of Steel®

Ironmaking

Blast Furnace

Basic Oxygen Furnace

Steelmaking

Refining Station

Secondary Refining

Casting

Annealed

Tempered Rolled

Temper Rolled

Strip

Galvanized

Tin Plated

Vacuum Debassing

Recycled Scrap

Lime

Limestone

Coal

COKE

The AIST Steel Wheel is a graphical representation of the processes used to convert raw materials into finished steel products. The process starts in the center with the three fundamental ingredients (iron ore, coal and limestone) needed to produce molten iron. The molten iron is mixed with recycled steel scrap and further processed in either an EAF or BOF to produce molten steel. The molten steel's chemistry is adjusted to exact chemical compositions through any of the second refining processes. The refined steel is solidified, typically by continuous casting machines. The solidified steel is further processed into semi-finished and finished product by various rolling and finishing processes. The finished product is utilized by the many manufacturers that incorporate steel in their products.

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