

| classification                | name                                       | purpose                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Line pipe for pipeline        | Line Pipe                                  | Used for oxygen, water, and oil transportation pipes in the petroleum and natural gas industries.                                                                                                                                                                                                                                                     |
|                               | Transport fluid pipe                       | Fluid conveying pipe is a general seamless pipe used for conveying fluids such as water, oil, gas, etc., mainly used for conveying fluid pipelines on engineering and large equipment.                                                                                                                                                                |
|                               | Low temperature pipeline pipe              | Seamless steel pipes for low-temperature pipelines are suitable for use in $-45^{\circ}\text{C}$ to $195^{\circ}\text{C}$ low-temperature pressure vessel pipelines and low-temperature heat exchanger pipelines.                                                                                                                                     |
| Boiler Tube                   | Low and medium pressure boiler tubes       | Used for manufacturing various low and medium pressure boilers, superheated steam pipes, boiling water pipes, water-cooled wall pipes, and superheated steam pipes, large smoke pipes, small smoke pipes, and arch brick pipes for locomotive boilers.                                                                                                |
|                               | High-pressure boiler tube                  | High pressure boiler tubes are mainly used to manufacture superheated steam pipes, reheated steam pipes, guide pipes, main steam pipes, etc. for high-pressure and ultra high pressure boilers.                                                                                                                                                       |
| Structural tube               | structural tube                            | Used for mechanical structures and general engineering structures.                                                                                                                                                                                                                                                                                    |
|                               | Tube for semi-trailer bridge of automobile | Used for manufacturing semi trailer axles for automobiles.                                                                                                                                                                                                                                                                                            |
|                               | Hydraulic support pipe                     | Cylinders and columns used for manufacturing hydraulic supports and pillars in coal mines.                                                                                                                                                                                                                                                            |
|                               | Square rectangular tube                    | Mainly used in fields such as engineering construction, steel structures, guardrails, machinery manufacturing, automobile manufacturing, shipbuilding, container manufacturing, and construction industry.                                                                                                                                            |
|                               | Ship pipes                                 | Mainly used for manufacturing Class I pressure systems, Class II pressure systems, and superheaters for ships.                                                                                                                                                                                                                                        |
| Petroleum geological industry | Oil pipeline                               | A pipe used for producing or injecting fluids into a well.                                                                                                                                                                                                                                                                                            |
|                               | Oil casing                                 | Oil casing is a large-diameter pipe that serves to secure the walls or boreholes of oil and gas wells. The casing is inserted into the wellbore and fixed with cement to prevent the wellbore from separating rock layers and collapsing, and to ensure the circulation of drilling mud for drilling and mining.                                      |
|                               | Drill pipe                                 | Transport drilling mud to the drill bit and raise, lower, or rotate the bottom hole device together with the drill bit. Drill pipes must be able to withstand enormous internal and external pressure, twisting, bending, and vibration.                                                                                                              |
|                               | Perforator barrel                          | Used for manufacturing perforating guns, perforating guns are a tool used in oil fields for well completion or fixed drilling.                                                                                                                                                                                                                        |
| Chemical pipes                | Petroleum cracking tube                    | Suitable for furnace tubes, heat exchanger tubes, and pipelines used in petroleum and refining plants.                                                                                                                                                                                                                                                |
|                               | High pressure pipes for fertilizers        | High pressure fertilizer pipes are high-quality carbon steel and alloy steel seamless pipes, mainly used for chemical equipment and pipelines with working temperatures of $-40^{\circ}\text{C}$ to $400^{\circ}\text{C}$ and working pressures of 10-32 megapascals, suitable for transporting media such as synthetic ammonia, urea, methanol, etc. |
| Pressure bearing pipe         | Gas cylinder tube                          | Mainly used for making various gas and hydraulic gas cylinders.                                                                                                                                                                                                                                                                                       |
|                               | Pressure bearing pipe                      | Mainly used for manufacturing various pressure equipment and pipelines.                                                                                                                                                                                                                                                                               |