



GB/T 5293 —
 AWS A5.17 EH11K
 EN ISO 14171 —

AK EH11K

Description

EH11K is a submerged arc welding wire offering steady arc behavior, excellent weld appearance, and reliable metallurgical performance. It is designed for applications where stable welding efficiency, sound weld deposits, and good strength are important. The wire is well suited for industrial fabrication requiring repeatable and consistent weld results.

Application Scenario

EH11K is frequently used in shipbuilding, construction machinery, steel columns, pipe sections, and fabrication of heavy industrial structures. It is a suitable option for manufacturers using automatic SAW systems in projects that demand productivity, welding consistency, and durable weld joints under routine production conditions.

Typical Chemical Composition(%):

| | C | Si | Mn | S | P | Ni | Cr | Mo | Cu |
|----------------------|-----------|-----------|-----------|-------|-------|-----|-----|-----|------|
| Requirement | 0.06-0.15 | 0.80-1.15 | 1.40-1.85 | 0.030 | 0.030 | --- | --- | --- | 0.35 |
| Actual Result | 0.08 | 1.11 | 1.68 | 0.015 | 0.010 | --- | --- | --- | 0.15 |

Typical Mechanical Properties:

| | Tensile Strength (MPa) | Yield Stress (MPa) | Elongation (%) | Impact Values (J) |
|----------------------|------------------------|---------------------|----------------|--------------------|
| Requirement | --- | --- | --- | --- |
| Actual Result | --- | --- | --- | --- |