



# Yancheng ACE VALVES CO., LTD

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## MATERIAL TEST CERTIFICATE

Certification as per EN10204(2004)-3.1

CERTIFICATE NO.

Y250207M-B

Material Specification 材料规格: ASTM A350

Material Name 材料名称: ASTM A350 LF2 CL.1/A105N

### CHEMICAL ANALYSIS 化学成分分析

| ORDER NO.<br>订单号 | HEAT NO.<br>炉号 | SERIALS NO.<br>序号 | PO   | DESCRIPTION<br>品名 | DRAWING NO.<br>图纸号 | QUANTITY<br>数量 | C                       | Si   | Mn    | P         | S         | Mo     | Cr    | Ni    | V     | Cu   | Nb    | CE   |       |       |
|------------------|----------------|-------------------|------|-------------------|--------------------|----------------|-------------------------|------|-------|-----------|-----------|--------|-------|-------|-------|------|-------|------|-------|-------|
|                  |                |                   |      |                   |                    |                | 碳                       | 硅    | 锰     | 磷         | 硫         | 钼      | 铬     | 镍     | 钒     | 铜    | 铌     | 碳当量  |       |       |
| Y250207          | 12202878C      | 1                 | 2136 | 封环                | 6060IG400PPDES     | 3              | 0.18                    | 0.23 | 0.96  | 0.011     | 0.008     | 0.002  | 0.005 | 0.03  | 0.004 | 0.03 | 0.001 | 0.35 |       |       |
| Y250207          | 12202878C      | 2                 | 2136 | 球固定板              | 6030IG500GB        | 6              | 0.18                    | 0.23 | 0.96  | 0.011     | 0.008     | 0.002  | 0.005 | 0.03  | 0.004 | 0.03 | 0.001 | 0.35 |       |       |
|                  |                |                   |      |                   |                    |                | SPECIFIED VALUES<br>标准值 |      | ≤0.23 | 0.15-0.30 | 0.60-1.05 | ≤0.035 | ≤0.04 | ≤0.12 | ≤0.3  | ≤0.1 | ≤0.05 | ≤0.4 | ≤0.02 | ≤0.43 |

### MECHANICAL PROPERTIES 机械性能

### HEAT TREATMENT 热处理

| HEAT NO.<br>炉号          | Y.S. (Mpa)<br>屈服强度 | T.S. (Mpa)<br>抗拉强度 | ELONGATION RATE<br>延伸率 (%) | REDUCTION RATE<br>断面收缩率 (%) | EXP LAT<br>侧面膨胀率 | CHARPYV-NOTCH(J)<br>夏比摆锤式冲击试验V型槽 | HARDNESS      | PROCESS<br>工艺          | 淬火<br>Quench  | 回火<br>Temper |
|-------------------------|--------------------|--------------------|----------------------------|-----------------------------|------------------|----------------------------------|---------------|------------------------|---------------|--------------|
|                         |                    |                    |                            |                             |                  | 10X10X55mm                       | (HBW)<br>布氏硬度 |                        |               |              |
| 12202878C               | 317                | 493                | 35                         | 74                          |                  | 53.51.53 (52)                    | 160/159/163   | TEMPERATURE<br>温度      | 910°C         | 600°C        |
|                         |                    |                    |                            |                             |                  |                                  |               | TIME<br>时间             | 3h            | 6h           |
|                         |                    |                    |                            |                             |                  |                                  |               | COOLING MEDIUM<br>冷却介质 | Water Cooling | Air Cooling  |
| SPECIFIED VALUES<br>标准值 | ≥250               | 485-655            | ≥30                        | ≥50                         |                  | AKV/(J)<br>(-46°C)50/40J         | ≤197          | BATCH NO.<br>热处理批号     | 2025021501    |              |



Visual Inspection/目测: MSS-SP-25 NACE MR0175

REMARKS 结论: 合格 (ACCEPT)

检验员 (OPERATOR): 蒋高军JGJ

日期 (DATE): 2025/2/15

单位主管 (QUALITY MANAGER) 徐海雷XHL

日期 (DATE): 2025/2/15