



# 江苏永钢集团有限公司产品质量证明书

Jiangsu Yonggang Group Co., Ltd. Mill Test Certificate

YG-QR8. 2. 4-9

No. 00159955

|                |                  |                           |            |                          |           |                        |             |
|----------------|------------------|---------------------------|------------|--------------------------|-----------|------------------------|-------------|
| 需方<br>Customer | Botley (UK) LTD. | 提货日期:<br>Date of Delivery | 2008-04-15 | 发货单号:<br>No. of Delivery | CK3205987 | 合同号<br>Contract Number | YG08-WR0518 |
|----------------|------------------|---------------------------|------------|--------------------------|-----------|------------------------|-------------|

| 产品规格<br>Size<br>(mm)   | 批号<br>Heat No | 牌号<br>Grade | 等级<br>Class | 长度<br>Length<br>(m) | 重量<br>Weight<br>(mt) | 化 学 成 份 (%)<br>(Chemical Composition)                             |      |      |       |       |       |      | 机 械 性 能<br>Mechanical Properties     |                                    |                               |                   |
|------------------------|---------------|-------------|-------------|---------------------|----------------------|-------------------------------------------------------------------|------|------|-------|-------|-------|------|--------------------------------------|------------------------------------|-------------------------------|-------------------|
|                        |               |             |             |                     |                      | C                                                                 | Si   | Mn   | P     | S     | B     | Ceq  | 抗拉强度<br>Tensile<br>Strength<br>(MPa) | 屈服强度<br>Yield<br>Strength<br>(MPa) | 伸长率<br>Elong-<br>ation<br>(%) | 冷弯性能<br>Bend Test |
| 9                      | 6080418129    | SAE1012B    |             | 0                   | 48.069               | 0.11                                                              | 0.16 | 0.38 | 0.024 | 0.028 | 0.002 | 0.17 | 415;410                              | 285;280                            | 32;30                         | OK                |
| 9                      | 6080418429    | SAE1012B    |             | 0                   | 48.002               | 0.10                                                              | 0.19 | 0.39 | 0.022 | 0.024 | 0.002 | 0.17 | 395;395                              | 280;265                            | 30;29                         | OK                |
| 9                      | 6080418629    | SAE1012B    |             | 0                   | 46.040               | 0.13                                                              | 0.18 | 0.35 | 0.016 | 0.033 | 0.002 | 0.19 | 410;405                              | 275;275                            | 32;31                         | OK                |
| 9                      | 6080418929    | SAE1012B    |             | 0                   | 46.018               | 0.10                                                              | 0.16 | 0.40 | 0.024 | 0.030 | 0.002 | 0.17 | 405;400                              | 280;275                            | 30;28                         | OK                |
| 9                      | 6080419029    | SAE1012B    |             | 0                   | 50.097               | 0.11                                                              | 0.16 | 0.40 | 0.020 | 0.025 | 0.002 | 0.17 | 410;405                              | 285;275                            | 30;29                         | OK                |
| 9                      | 6080419329    | SAE1012B    |             | 0                   | 19.938               | 0.12                                                              | 0.16 | 0.37 | 0.020 | 0.040 | 0.001 | 0.18 | 420;415                              | 290;285                            | 28;28                         | OK                |
| 注意事项(Attentive items): |               |             |             |                     |                      | 质量证明书复印件不作有效证明文件 (The Copy of this Certificate is not effective.) |      |      |       |       |       |      |                                      |                                    |                               |                   |

质量检验章 (Seal):

检 验 (Test):

制 单 (Signature): 李红

销售电话 (Sales Tel): 0512-58619833

邮政编码 (Post Code): 215628

签证日期 (Date of Issue): 2008-04-15

厂址 (Address): 江苏省张家港市南丰镇永钢集团 (Yonglian Industrial Zone, Nanfeng Town, Zhangjiagang City, Jiangsu, China)

 江苏永钢集团有限公司  
JIANGSU YONGGANG GROUP CO., LTD.



# 江苏永钢集团有限公司产品质量证明书

Jiangsu Yonggang Group Co., Ltd. Mill Test Certificate

YG-QR8.2.4-9

No. 00159960

|                |                  |                           |            |                          |           |                        |             |
|----------------|------------------|---------------------------|------------|--------------------------|-----------|------------------------|-------------|
| 需方<br>Customer | Botley (UK) LTD. | 提货日期:<br>Date of Delivery | 2008-04-15 | 发货单号:<br>No. of Delivery | CK3205992 | 合同号<br>Contract Number | YG08-WR0518 |
|----------------|------------------|---------------------------|------------|--------------------------|-----------|------------------------|-------------|

| 产品<br>规格<br>Size<br>(mm) | 批号<br>Heat No | 牌号<br>Grade | 等级<br>Class | 长度<br>Length<br>(m) | 重量<br>Weight<br>(mt) | 化 学 成 份 (%)<br>(Chemical Composition)                             |      |      |       |       |       |      | 机 械 性 能<br>Mechanical Properties     |                                    |                               |                   |
|--------------------------|---------------|-------------|-------------|---------------------|----------------------|-------------------------------------------------------------------|------|------|-------|-------|-------|------|--------------------------------------|------------------------------------|-------------------------------|-------------------|
|                          |               |             |             |                     |                      | C                                                                 | Si   | Mn   | P     | S     | B     | Ceq  | 抗拉强度<br>Tensile<br>Strength<br>(MPa) | 屈服强度<br>Yield<br>Strength<br>(MPa) | 伸长率<br>Elong-<br>ation<br>(%) | 冷弯性能<br>Bend Test |
| 9                        | 6080417929    | SAE1012B    |             | 0                   | 48.034               | 0.10                                                              | 0.18 | 0.36 | 0.015 | 0.028 | 0.002 | 0.16 | 405;400                              | 280;275                            | 30;30                         | OK                |
| 9                        | 6080418029    | SAE1012B    |             | 0                   | 47.994               | 0.12                                                              | 0.20 | 0.41 | 0.023 | 0.023 | 0.002 | 0.19 | 395;395                              | 280;275                            | 31;30                         | OK                |
| 9                        | 6080418329    | SAE1012B    |             | 0                   | 5.987                | 0.10                                                              | 0.15 | 0.35 | 0.016 | 0.027 | 0.002 | 0.16 | 400;400                              | 270;265                            | 32;29                         | OK                |
| 9                        | 6080418529    | SAE1012B    |             | 0                   | 48.064               | 0.12                                                              | 0.16 | 0.38 | 0.029 | 0.025 | 0.002 | 0.18 | 410;405                              | 280;280                            | 29;28                         | OK                |
| 9                        | 6080418729    | SAE1012B    |             | 0                   | 47.963               | 0.10                                                              | 0.16 | 0.36 | 0.019 | 0.030 | 0.002 | 0.16 | 410;405                              | 280;275                            | 30;29                         | OK                |
| 9                        | 6080418829    | SAE1012B    |             | 0                   | 41.550               | 0.09                                                              | 0.13 | 0.34 | 0.022 | 0.038 | 0.002 | 0.15 | 400;395                              | 280;280                            | 30;28                         | OK                |
| 注意事项(Attentive items):   |               |             |             |                     |                      | 质量证明书复印件不作有效证明文件 (The Copy of this Certificate is not effective.) |      |      |       |       |       |      |                                      |                                    |                               |                   |

质量检验章 (Seal):

检 验 (Test):



制 单 (Signature): 李红

销售电话 (Sales Tel): 0512-68619833

邮政编码 (Post Code): 215628

签证日期 (Date of Issue): 2008-04-15

厂址 (Address): 江苏省张家港市南丰镇永联集镇 (Yonglian Industrial Zone, Nanfeng Town, Zhangjiagang City, Jiangsu, China)

 江苏永钢集团有限公司  
JIANGSU YONGGANG GROUP CO., LTD.



# 江苏永钢集团有限公司产品质量证明书

Jiangsu Yonggang Group Co., Ltd. Mill Test Certificate

YG-QR8. 2. 4-9

No. 00159962

|                |                  |                           |            |                          |           |                        |             |
|----------------|------------------|---------------------------|------------|--------------------------|-----------|------------------------|-------------|
| 需方<br>Customer | Botley (UK) LTD. | 提货日期:<br>Date of Delivery | 2008-04-15 | 发货单号:<br>No. of Delivery | CK3205994 | 合同号<br>Contract Number | YG08-WR0518 |
|----------------|------------------|---------------------------|------------|--------------------------|-----------|------------------------|-------------|

| 产品<br>规格<br>Size<br>(mm) | 批号<br>Heat No | 牌号<br>Grade | 等级<br>Class | 长度<br>Length<br>(m) | 重量<br>Weight<br>(mt) | 化 学 成 份 (%)<br>(Chemical Composition)                             |      |      |       |       |       |      | 机 械 性 能<br>Mechanical Properties     |                                    |                               |                   |
|--------------------------|---------------|-------------|-------------|---------------------|----------------------|-------------------------------------------------------------------|------|------|-------|-------|-------|------|--------------------------------------|------------------------------------|-------------------------------|-------------------|
|                          |               |             |             |                     |                      | C                                                                 | Si   | Mn   | P     | S     | B     | Ceq  | 抗拉强度<br>Tensile<br>Strength<br>(MPa) | 屈服强度<br>Yield<br>Strength<br>(MPa) | 伸长率<br>Elong-<br>ation<br>(%) | 冷弯性能<br>Bend Test |
| 9                        | 6080419129    | SAE1012B    |             | 0                   | 47.978               | 0.11                                                              | 0.16 | 0.41 | 0.030 | 0.029 | 0.002 | 0.18 | 410;410                              | 280;275                            | 30;30                         | OK                |
| 9                        | 6080419229    | SAE1012B    |             | 0                   | 47.991               | 0.10                                                              | 0.15 | 0.37 | 0.022 | 0.034 | 0.002 | 0.17 | 415;415                              | 280;280                            | 33;31                         | OK                |
| 9                        | 6080419629    | SAE1012B    |             | 0                   | 47.240               | 0.11                                                              | 0.16 | 0.37 | 0.017 | 0.025 | 0.001 | 0.17 | 405;400                              | 275;270                            | 32;30                         | OK                |
| 9                        | 6080419729    | SAE1012B    |             | 0                   | 43.901               | 0.11                                                              | 0.17 | 0.38 | 0.013 | 0.023 | 0.002 | 0.18 | 405;405                              | 275;275                            | 30;29                         | OK                |
| 9                        | 6080419829    | SAE1012B    |             | 0                   | 46.002               | 0.11                                                              | 0.14 | 0.35 | 0.026 | 0.030 | 0.001 | 0.16 | 410;405                              | 280;275                            | 30;30                         | OK                |
| 9                        | 6080419929    | SAE1012B    |             | 0                   | 42.052               | 0.10                                                              | 0.18 | 0.36 | 0.022 | 0.024 | 0.002 | 0.16 | 405;400                              | 290;285                            | 30;30                         | OK                |
| 注意事项(Attentive items):   |               |             |             |                     |                      | 质量证明书复印件不作有效证明文件 (The Copy of this Certificate is not effective.) |      |      |       |       |       |      |                                      |                                    |                               |                   |

质量检验章 (Seal):

检 验 (Test):

制 单 (Signature): 李红

销售电话 (Sales Tel): 0512-58619853

邮政编码 (Post Code): 215628

签证日期 (Date of Issue): 2008-04-15

厂址 (Address): 江苏省张家港市南丰镇永联集镇 (Yonglian Industrial Zone, Nanfeng Town, Zhangjiagang City, Jiangsu, China)



 江苏永钢集团有限公司  
JIANGSU YONGGANG GROUP CO., LTD.



# 江苏永钢集团有限公司产品质量证明书

Jiangsu Yonggang Group Co., Ltd. Mill Test Certificate

YG-QR8. 2. 4-9

No. 00160010

|                |                  |                           |            |                          |           |                        |             |
|----------------|------------------|---------------------------|------------|--------------------------|-----------|------------------------|-------------|
| 需方<br>Customer | Botley (UK) LTD. | 提货日期:<br>Date of Delivery | 2008-04-15 | 发货单号:<br>No. of Delivery | CK3206042 | 合同号<br>Contract Number | YG08-WR0518 |
|----------------|------------------|---------------------------|------------|--------------------------|-----------|------------------------|-------------|

| 产品<br>规格<br>Size<br>(mm) | 批号<br>Heat No | 牌号<br>Grade | 等级<br>Class | 长度<br>Length<br>(m) | 重量<br>Weight<br>(mt) | 化 学 成 份 (%)<br>(Chemical Composition)                             |      |      |       |       |       |      | 机 械 性 能<br>Mechanical Properties     |                                    |                               |                   |
|--------------------------|---------------|-------------|-------------|---------------------|----------------------|-------------------------------------------------------------------|------|------|-------|-------|-------|------|--------------------------------------|------------------------------------|-------------------------------|-------------------|
|                          |               |             |             |                     |                      | C                                                                 | Si   | Mn   | P     | S     | B     | Ceq  | 抗拉强度<br>Tensile<br>Strength<br>(MPa) | 屈服强度<br>Yield<br>Strength<br>(MPa) | 伸长率<br>Elong-<br>ation<br>(%) | 冷弯性能<br>Bend Test |
| 9                        | 6080420429    | SAE1012B    |             | 0                   | 43.913               | 0.12                                                              | 0.17 | 0.39 | 0.024 | 0.024 | 0.002 | 0.18 | 395;395                              | 280;270                            | 31;30                         | OK                |
| 9                        | 6080420529    | SAE1012B    |             | 0                   | 43.931               | 0.10                                                              | 0.17 | 0.39 | 0.017 | 0.025 | 0.002 | 0.17 | 395;390                              | 285;280                            | 32;30                         | OK                |
| 9                        | 6080420729    | SAE1012B    |             | 0                   | 47.962               | 0.11                                                              | 0.18 | 0.38 | 0.014 | 0.020 | 0.001 | 0.17 | 395;390                              | 280;275                            | 32;30                         | OK                |
| 9                        | 6080420829    | SAE1012B    |             | 0                   | 51.991               | 0.10                                                              | 0.16 | 0.38 | 0.019 | 0.022 | 0.002 | 0.16 | 390;390                              | 265;260                            | 31;30                         | OK                |
| 9                        | 6080420929    | SAE1012B    |             | 0                   | 44.018               | 0.11                                                              | 0.18 | 0.43 | 0.018 | 0.021 | 0.002 | 0.19 | 400;395                              | 275;270                            | 31;30                         | OK                |
| 9                        | 6080421029    | SAE1012B    |             | 0                   | 47.970               | 0.11                                                              | 0.19 | 0.39 | 0.017 | 0.019 | 0.002 | 0.18 | 385;385                              | 275;265                            | 32;31                         | OK                |
| 注意事项(Attentive items):   |               |             |             |                     |                      | 质量证明书复印件不作有效证明文件 (The Copy of this Certificate is not effective.) |      |      |       |       |       |      |                                      |                                    |                               |                   |

质量检验章 (Seal):

检 验 (Test):

制 单 (Signature): 李红

销售电话 (Sales Tel): 0512-58619833

邮政编码 (Post Code): 215628

签证日期 (Date of Issue): 2008-04-15

厂址 (Address): 江苏省张家港市南丰镇永联集镇 (Yonglian Industrial Zone, Nanfeng Town, Zhangjiagang City, Jiangsu, China)



 江苏永钢集团有限公司  
JIANGSU YONGGANG GROUP CO., LTD.



# 江苏永钢集团有限公司产品质量证明书

Jiangsu Yonggang Group Co., Ltd. Mill Test Certificate

YG-QR8.2.4-9

No. 00160012

|                |                  |                           |            |                          |           |                        |             |
|----------------|------------------|---------------------------|------------|--------------------------|-----------|------------------------|-------------|
| 需方<br>Customer | Botley (UK) LTD. | 提货日期:<br>Date of Delivery | 2008-04-15 | 发货单号:<br>No. of Delivery | CK3206044 | 合同号<br>Contract Number | YG08-WR0518 |
|----------------|------------------|---------------------------|------------|--------------------------|-----------|------------------------|-------------|

| 产品<br>规格<br>Size<br>(mm) | 批号<br>Heat No | 牌号<br>Grade | 等级<br>Class | 长度<br>Length<br>(m) | 重量<br>Weight<br>(mt) | 化 学 成 份 (%)<br>(Chemical Composition)                             |      |      |       |       |       |      | 机 械 性 能<br>Mechanical Properties     |                                    |                               |                   |
|--------------------------|---------------|-------------|-------------|---------------------|----------------------|-------------------------------------------------------------------|------|------|-------|-------|-------|------|--------------------------------------|------------------------------------|-------------------------------|-------------------|
|                          |               |             |             |                     |                      | C                                                                 | Si   | Mn   | P     | S     | B     | Ceq  | 抗拉强度<br>Tensile<br>Strength<br>(MPa) | 屈服强度<br>Yield<br>Strength<br>(MPa) | 伸长率<br>Elong-<br>ation<br>(%) | 冷弯性能<br>Bend Test |
| 9                        | 6080418229    | SAE1012B    |             | 0                   | 50.121               | 0.11                                                              | 0.16 | 0.38 | 0.020 | 0.026 | 0.002 | 0.17 | 400;395                              | 275;270                            | 29;28                         | OK                |
| 9                        | 6080419729    | SAE1012B    |             | 0                   | 1.993                | 0.11                                                              | 0.17 | 0.38 | 0.013 | 0.023 | 0.002 | 0.18 | 405;405                              | 275;275                            | 30;29                         | OK                |
| 9                        | 6080420129    | SAE1012B    |             | 0                   | 49.963               | 0.10                                                              | 0.16 | 0.35 | 0.025 | 0.038 | 0.001 | 0.16 | 410;405                              | 280;275                            | 32;30                         | OK                |
| 9                        | 6080420229    | SAE1012B    |             | 0                   | 49.927               | 0.10                                                              | 0.15 | 0.37 | 0.020 | 0.026 | 0.002 | 0.16 | 415;415                              | 275;275                            | 30;30                         | OK                |
| 9                        | 6080420329    | SAE1012B    |             | 0                   | 47.905               | 0.09                                                              | 0.17 | 0.33 | 0.014 | 0.026 | 0.002 | 0.15 | 415;410                              | 310;300                            | 30;30                         | OK                |
| 9                        | 6080420629    | SAE1012B    |             | 0                   | 39.964               | 0.12                                                              | 0.16 | 0.38 | 0.022 | 0.025 | 0.002 | 0.18 | 395;390                              | 265;265                            | 32;32                         | OK                |
| 注意事项(Attentive items):   |               |             |             |                     |                      | 质量证明书复印件不作有效证明文件 (The Copy of this Certificate is not effective.) |      |      |       |       |       |      |                                      |                                    |                               |                   |

质量检验章 (Seal):



检 验 (Test):

吕玉兰

制 单 (Signature): 李红

销售电话 (Sales Tel): 0512-58619838

邮政编码 (Post Code): 215628

签证日期 (Date of Issue): 2008-04-15

厂址 (Address): 江苏省张家港市南丰镇永联集镇 (Yonglian Industrial Zone, Nanfeng Town, Zhangjiagang City, Jiangsu, China)

 江苏永钢集团有限公司  
JIANGSU YONGGANG GROUP CO., LTD.



# 江苏永钢集团有限公司产品质量证明书

Jiangsu Yonggang Group Co., Ltd. Mill Test Certificate

YG-QR8.2.4-9

No. 00160014

|                |                  |                           |            |                          |           |                        |             |
|----------------|------------------|---------------------------|------------|--------------------------|-----------|------------------------|-------------|
| 需方<br>Customer | Botley (UK) LTD. | 提货日期:<br>Date of Delivery | 2008-04-15 | 发货单号:<br>No. of Delivery | CK3206046 | 合同号<br>Contract Number | YG08-WR0518 |
|----------------|------------------|---------------------------|------------|--------------------------|-----------|------------------------|-------------|

| 产品<br>规格<br>Size<br>(mm) | 批号<br>Heat No | 牌号<br>Grade | 等级<br>Class | 长度<br>Length<br>(m) | 重量<br>Weight<br>(mt) | 化 学 成 份 (%)<br>(Chemical Composition)                             |      |      |       |       |       |      | 机 械 性 能<br>Mechanical Properties     |                                    |                               |                   |
|--------------------------|---------------|-------------|-------------|---------------------|----------------------|-------------------------------------------------------------------|------|------|-------|-------|-------|------|--------------------------------------|------------------------------------|-------------------------------|-------------------|
|                          |               |             |             |                     |                      | C                                                                 | Si   | Mn   | P     | S     | B     | Ceq  | 抗拉强度<br>Tensile<br>Strength<br>(MPa) | 屈服强度<br>Yield<br>Strength<br>(MPa) | 伸长率<br>Elong-<br>ation<br>(%) | 冷弯性能<br>Bend Test |
| 9                        | 6080418329    | SAE1012B    |             | 0                   | 39.933               | 0.10                                                              | 0.15 | 0.35 | 0.016 | 0.027 | 0.002 | 0.16 | 400;400                              | 270;265                            | 32;29                         | OK                |
| 9                        | 6080419329    | SAE1012B    |             | 0                   | 26.023               | 0.12                                                              | 0.16 | 0.37 | 0.020 | 0.040 | 0.001 | 0.18 | 420;415                              | 290;285                            | 28;28                         | OK                |
| 9                        | 6080419429    | SAE1012B    |             | 0                   | 50.032               | 0.11                                                              | 0.15 | 0.38 | 0.020 | 0.025 | 0.001 | 0.17 | 420;415                              | 300;295                            | 30;29                         | OK                |
| 9                        | 6080419529    | SAE1012B    |             | 0                   | 39.676               | 0.10                                                              | 0.16 | 0.39 | 0.021 | 0.024 | 0.001 | 0.17 | 415;415                              | 300;275                            | 32;30                         | OK                |
| 9                        | 6080419929    | SAE1012B    |             | 0                   | 8.031                | 0.10                                                              | 0.18 | 0.36 | 0.022 | 0.024 | 0.002 | 0.16 | 405;400                              | 290;285                            | 30;30                         | OK                |
| 9                        | 6080420029    | SAE1012B    |             | 0                   | 49.899               | 0.10                                                              | 0.17 | 0.37 | 0.024 | 0.033 | 0.002 | 0.16 | 405;400                              | 305;280                            | 30;29                         | OK                |
| 注意事项(Attentive items):   |               |             |             |                     |                      | 质量证明书复印件不作有效证明文件 (The Copy of this Certificate is not effective.) |      |      |       |       |       |      |                                      |                                    |                               |                   |

质量检验章 (Seal):

检 验 (Test):

吕玉生

制 单 (Signature): 李红

销售电话 (Sales Tel): 0512-58619833

邮政编码 (Post Code): 215628

签证日期 (Date of Issue): 2008-04-15

厂址 (Address): 江苏省张家港市南丰镇永联集镇 (Yonglian Industrial Zone, Nanfeng Town, Zhangjiagang City, Jiangsu, China)

 江苏永钢集团有限公司  
JIANGSU YONGGANG GROUP CO., LTD.