

| Steel Grade: 37MnSi5   Material No: 1.5122 |                                    |                                       |                                       |                                       |                                |           |                          |          |
|--|------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------|-----------|--------------------------|----------|
| CHEMICAL COMPOSITION                       |                                    |                                       |                                       |                                       |                                |           |                          |          |
| C(%)                                       | Si(%)                              | Mn(%)                                 | P(%)                                  | S(%)                                  | Cr(%)                          | Mo(%)     | Ni(%)                    | Other(%) |
| 0.33~0.41                                  | 1.10~1.40                          | 1.10~1.40                             | 0.035                                 | 0.035                                 | —                              | —         | —                        | —        |
| HARDNESS AND HEAT TREATMENT                |                                    |                                       |                                       |                                       |                                |           |                          |          |
| Hot Working/°C                             | Annealing/°C                       | Normalizing/°C                        | Quench/°C                             |                                       |                                | Temper/°C | Annealing hardness HBS ≤ |          |
| 1100~850                                   | 680~720                            | 860~890                               | 820~850Water                          | 830~860Oil                            | 480~650                        | 217       |                          |          |
| MECHANICAL PROPERTIES                      |                                    |                                       |                                       |                                       |                                |           |                          |          |
| Size/mm                                    | Tensile Strength   $\sigma_b$ /Mpa | Yield Strength   $\sigma_s \geq$ /Mpa | Extensibility   $\delta_5$ (%) $\geq$ | Reduction of Area   $\psi$ (%) $\geq$ | Ballistic   akv/J <sup>③</sup> |           |                          |          |
| ≤16  | 980~1180                           | 785                                   | 11                                    | 35                                    | 34                             |           |                          |          |
| 17~40                                      | 880~1030                           | 635                                   | 12                                    | 40                                    | 41                             |           |                          |          |

From: Jiangyou Hacer Technology Co., Limited  
 Factory Add: Jiangzhang Road, Jiangyou City, SC, China  
 Website: <https://www.jhacer.com/>  
 Email: [sales@jhacer.com](mailto:sales@jhacer.com)  
 Phone: +86-(0)816-3260757  
 Call: +86-13658128897(WhatsApp)