

|                       |                 |
|-----------------------|-----------------|
| Quality               | 4340            |
| According to Standard | ASTM A 29/A 29M |
| Number                | -               |



|                      |    |        |        |           |  |  |  |
|----------------------|----|--------|--------|-----------|--|--|--|
| Comparable Standards | EN | W.N.   | BS 970 | DIN       |  |  |  |
|                      | -  | 1.6565 | 817M40 | 40NiCrMo6 |  |  |  |

|                   |             |             |             |             |             |             |            |
|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|
| Chemical Analysis | C %         | Mn %        | Si %        | Cr %        | Ni %        | Mo %        | S%         |
|                   | 0.38 - 0.43 | 0.60 - 0.80 | 0.15 - 0.35 | 0.70 - 0.90 | 1.65 - 2.00 | 0.20 - 0.30 | 0.040 max. |
|                   | P %         |             |             |             |             |             |            |
| 0.035 max.        |             |             |             |             |             |             |            |

**Hot Work and Heat Treatment Temperatures**

| Preheat Treatment °F (°C) | Austenitizing Temperature, °F (°C) |                                | Austenitizing Time (minutes) | Quench Medium | Tempering Temperature, °F (°C) | Minimum Hardness, RC |
|---------------------------|------------------------------------|--------------------------------|------------------------------|---------------|--------------------------------|----------------------|
|                           | Salt Bath                          | Controlled Atmosphere Furnaces |                              |               |                                |                      |
| -                         | -                                  | -                              | -                            | -             | -                              | -                    |

**Mechanical Properties at Room Temperature**

| Condition | Ø   | Rp0,2 min. | Rm    | A min. % | KV min. J | Max. Brinell Hardness |                |
|-----------|-----|------------|-------|----------|-----------|-----------------------|----------------|
|           | mm. | N/mm2      | N/mm2 |          |           | Annealed BHN          | Cold Drawn BHN |
|           | -   | -          | -     | -        | -         | -                     | -              |