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|-----------------------------------------------------------------------------------|---------------------------------------------------------|------------------------|
|  | <b>16NiCrS4Pb</b><br>Special alloy case-hardening steel | <b>(W. NR. 1.5715)</b> |
|-----------------------------------------------------------------------------------|---------------------------------------------------------|------------------------|

**CHEMICAL COMPOSITION:** (heat analysis according to the EN ISO 683-3:2022 standard)

|      | C %  | Si % | Mn % | P %   | S %   | Cr % | Ni % | Pb%  | Cu%  |
|------|------|------|------|-------|-------|------|------|------|------|
| FROM | 0,13 | -    | 0,70 | -     | 0,020 | 0,60 | 0,80 | 0,15 | -    |
| TO   | 0,19 | 0,40 | 1,00 | 0,025 | 0,040 | 1,00 | 1,10 | 0,35 | 0,40 |

**\*MECHANICAL FEATURES:** (according to the EN 10277:2018 standard)

| Thickness<br>mm | Soft annealed* + peeled rolled<br>(+A +SH ) | Soft annealed* + cold drawn<br>(+A+C ) |
|-----------------|---------------------------------------------|----------------------------------------|
|                 | Hardness maximum values<br>HB               | Hardness maximum values<br>HB          |
| ≥5≤10           | -                                           | 270                                    |
| >10≤16          | -                                           | 260                                    |
| >16≤40          | 217                                         | 255                                    |
| >40≤63          | 217                                         | 255                                    |
| >63≤100         | 217                                         | 255                                    |

\* Delivery condition: subjected to a softening treatment according to the maximum hardness prescription.

**PROPERTIES :**

Good machinability in the annealed condition and good aptitude / endurance to heat treatment; this steel grade undergoes heat treatment without important deformations.

**Hardenability:**

It has a low-medium hardenability enabling the use, with good core resistance, till a thickness of about 50 mm.

**Notes :**

**CORRESPONDENCE WITH OTHER STANDARDS ( purely as an indication ) :**

|                               |                                |                           |                                       |
|-------------------------------|--------------------------------|---------------------------|---------------------------------------|
| <b>UNI 7846</b><br>16CrNi4+Pb | <b>EN 10084</b><br>16NiCrS4+Pb | <b>AISI - SAE</b><br>3115 | <b>EN 10277-4:2008</b><br>16NiCrS4+Pb |
|-------------------------------|--------------------------------|---------------------------|---------------------------------------|