

# TECHNICAL INFORMATION - HSC HICOM

# CASING



SIZE: **7 5/8"**

NOMINAL WEIGHT: **45.30 lb/ft**

WALL THICKNESS: **0.595"**

THREADS PER INCH: **5**



|                  |                                             |   |       |                         |   |        |                        |        |        |        |        |                             |  |       |
|------------------|---------------------------------------------|---|-------|-------------------------|---|--------|------------------------|--------|--------|--------|--------|-----------------------------|--|-------|
| <b>PIPE BODY</b> | <b>OUTSIDE DIA. (in)</b>                    | D | 7.625 | <b>INSIDE DIA. (in)</b> | d | 6.435  | <b>DRIFT DIA. (in)</b> |        |        |        | 6.310  | <b>PLAIN END WT (lb/ft)</b> |  | 44.67 |
|                  | <b>GRADE</b>                                |   |       |                         |   | N80    | L80                    | C90    | C95    | P110   | Q125   | 150                         |  |       |
|                  | <b>COLLAPSE RESISTANCE (psi)</b>            |   |       |                         |   | 11510  | 11510                  | 12950  | 13660  | 15430  | 17090  | 19660                       |  |       |
|                  | <b>INTERNAL YIELD PRESSURE (psi)</b>        |   |       |                         |   | 10930  | 10930                  | 12290  | 12970  | 15020  | 17070  | 20480                       |  |       |
|                  | <b>BODY YIELD STRENGTH (kips)</b>           |   |       |                         |   | 1051   | 1051                   | 1183   | 1248   | 1445   | 1643   | 1971                        |  |       |
|                  | <b>ULTIMATE STRENGTH (kips)</b>             |   |       |                         |   | 1314   | 1248                   | 1314   | 1380   | 1643   | 1774   | 2103                        |  |       |
|                  | <b>NOMINAL CROSS-SECTIONAL AREA (sq-in)</b> |   |       |                         |   | 13.141 | 13.141                 | 13.141 | 13.141 | 13.141 | 13.141 | 13.141                      |  |       |

|                |                                                                                                  |  |                                  |  |  |        |        |        |        |        |        |        |  |  |
|----------------|--------------------------------------------------------------------------------------------------|--|----------------------------------|--|--|--------|--------|--------|--------|--------|--------|--------|--|--|
| <b>MAKE UP</b> | <b>RECOMMENDED MAKE UP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0</b> |  |                                  |  |  |        |        |        |        |        |        |        |  |  |
|                | <b>REGULAR</b>                                                                                   |  | <b>MINIMUM (ft.lb)</b>           |  |  | 10310  | 10310  | 10660  | 10840  | 11350  | 11870  | 12740  |  |  |
|                |                                                                                                  |  | <b>OPTIMUM (ft.lb)</b>           |  |  | 11460  | 11460  | 11850  | 12040  | 12610  | 13190  | 14150  |  |  |
|                |                                                                                                  |  | <b>MAXIMUM (ft.lb)</b>           |  |  | 12610  | 12610  | 13040  | 13240  | 13870  | 14510  | 15570  |  |  |
|                |                                                                                                  |  | <b>BODY YIELD TORQUE (ft.lb)</b> |  |  | 165090 | 165090 | 185720 | 196040 | 226990 | 257950 | 309540 |  |  |
|                | <b>SPECIAL CLEARANCE</b>                                                                         |  | <b>MINIMUM (ft.lb)</b>           |  |  | 9290   | 9290   | 9590   | 9760   | 10220  | 10680  | 11460  |  |  |
|                |                                                                                                  |  | <b>OPTIMUM (ft.lb)</b>           |  |  | 10320  | 10320  | 10660  | 10840  | 11350  | 11870  | 12730  |  |  |
|                |                                                                                                  |  | <b>MAXIMUM (ft.lb)</b>           |  |  | 11350  | 11350  | 11730  | 11920  | 12480  | 13060  | 14000  |  |  |

|                                                                                                                                                                 |                                                  |  |  |    |                          |                              |                    |                             |                                         |        |        |        |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--|--|----|--------------------------|------------------------------|--------------------|-----------------------------|-----------------------------------------|--------|--------|--------|--|
| <b>CONNECTION</b>                                                                                                                                               | <b>COLLAPSE RESISTANCE (psi)</b>                 |  |  |    |                          | 11510                        | 11510              | 12950                       | 13660                                   | 15430  | 17090  | 19660  |  |
|                                                                                                                                                                 | <b>COMPRESSION RESISTANCE (%)</b>                |  |  |    |                          | 100                          | 100                | 100                         | 100                                     | 100    | 100    | 100    |  |
|                                                                                                                                                                 | <b>TENSILE EFFICIENCY (%)</b>                    |  |  |    |                          | 100                          | 100                | 100                         | 100                                     | 100    | 100    | 100    |  |
|                                                                                                                                                                 | <b>INTERNAL YIELD PRESSURE (psi)</b>             |  |  |    |                          | 10930                        | 10930              | 12290                       | 12970                                   | 15020  | 17070  | 20480  |  |
|                                                                                                                                                                 | <b>MAXIMUM BENDING ANGLE (° PER 100ft)</b>       |  |  |    |                          | 57                           | 57                 | 64                          | 68                                      | 78     | 89     | 107    |  |
|                                                                                                                                                                 | <b>BOX CRITICAL CROSS-SECTIONAL AREA (sq-in)</b> |  |  |    |                          | 13.404                       | 13.404             | 13.404                      | 13.404                                  | 13.404 | 13.404 | 13.404 |  |
|                                                                                                                                                                 | <b>MAXIMUM LOAD OF REG. COUPLING FACE (kips)</b> |  |  |    |                          | 807                          | 807                | 908                         | 959                                     | 1110   | 1262   | 1514   |  |
|                                                                                                                                                                 | <b>MAXIMUM LOAD OF S.C. COUPLING FACE (kips)</b> |  |  |    |                          | 473                          | 473                | 532                         | 562                                     | 650    | 739    | 887    |  |
|                                                                                                                                                                 |                                                  |  |  |    |                          | <b>PARTING LOAD (kips)</b>   |                    |                             |                                         |        |        |        |  |
|                                                                                                                                                                 | <b>REGULAR COUPLING O.D.</b>                     |  |  |    |                          | 1152                         | 1109               | 1189                        | 1251                                    | 1477   | 1619   | 1926   |  |
|                                                                                                                                                                 | <b>SPECIAL CLEARANCE COUPLING O.D.</b>           |  |  |    |                          | 874                          | 830                | 874                         | 918                                     | 1093   | 1180   | 1399   |  |
|                                                                                                                                                                 |                                                  |  |  |    | <b>OUTSIDE DIA. (in)</b> | <b>INSIDE DIA. (d1) (in)</b> | <b>WEIGHT (lb)</b> | <b>JOINT EFFICIENCY (%)</b> | <b>30' JOINT MUD DISPLACEMENT (in³)</b> |        |        |        |  |
|                                                                                                                                                                 | <b>REGULAR COUPLING</b>                          |  |  |    | W                        | 8.598                        | 6.535              | 44.68                       | 102                                     | 4855   |        |        |  |
|                                                                                                                                                                 | <b>SPECIAL CLEARANCE COUPLING</b>                |  |  |    | Wc                       | 8.281                        | 6.535              | 32.46                       | 70                                      | 4812   |        |        |  |
|                                                                                                                                                                 | <b>LENGTH OF COUPLING (in)</b>                   |  |  |    | NL                       | 10.260                       |                    |                             |                                         |        |        |        |  |
| <b>MAKE UP LOSS (in)</b>                                                                                                                                        |                                                  |  |  | ML | 4.130                    |                              |                    |                             |                                         |        |        |        |  |
| The above information is for reference only. The information is subject to change or modification without notice. Please contact HSC for the latest information |                                                  |  |  |    |                          |                              |                    |                             |                                         |        |        |        |  |