



## GLOSSARY OF TERMS

Marine terms and abbreviations are open to variation around the world, the following are used in all our literature and correspondence:

### **BOW CHAIN STOPPER**

A mechanical device for securing chafe chains onboard a tanker.

### **BRAIDED ROPE**

Rope constructed by braiding or interweaving strands together.

### **BRAIDLINE OR DOUBLE BRAID ROPE**

Rope consisting of a hollow core of many braided strands enclosed in a cover of many braided strands.

### **BREAKING LENGTH**

The length of rope, whose mass will equal that of its breaking strength.

### **CBS**

Calculated breaking strength.

### **CHAFE CHAIN**

A length of stud-link chain at the end of an SPM mooring hawser which passes through a ship's fairlead and is used to connect the SPM mooring hawser to the bow chain stopper of a tanker.

### **CONVENTIONAL TANKER**

An oil tanker equipped for regular trading and not specially designed or adapted for loading at offshore terminals requiring specialised mooring or bow loading equipment.

### **DISPLACEMENT**

The mass of water in tonnes displaced by a vessel at a given draft.

### **DWT**

Deadweight tonnage of a vessel at the maximum summer draft, expressed in tonnes.

### **EIGHT STRAND ROPE**

Rope construction of two pairs of strands with right hand twist and two pairs of strand with left hand twist, braided together in such a way that pairs of strands of opposite twist overlay one another.

### **END FOR END SPLICE**

The joining of two ropes by means of a splice.

### **FPSO**

Floating Production, Storage and Offloading unit.



**Offspring International Ltd**

Unit 8, Castle Court, Castlegate Way, Dudley, West Midlands, DY1 4RH. UK

Tel: +44 1384 453880 / Fax: +44 1384 453888

Email: [mail@offspringinternational.com](mailto:mail@offspringinternational.com) / Web: [www.offspringinternational.com](http://www.offspringinternational.com)

**World-wide Sales Agents for Deep Water Mooring and Single Point Mooring**



**FSO**

Floating Storage and Offloading unit.

**GROMMET ROPE OR DOUBLE LEG HAWSER**

An assembly of rope spliced into an endless loop then two legs seized together to form a single length. Ancillary equipment fitted as required.

**LAID ROPE**

Rope constructed by laying and twisting several strands together. The direction of the twist is opposite that of the strand twist. Common forms are three, four and six strand (with core).

**LINEAR DENSITY**

The weight per unit length of the rope.

**MAXIMUM SUMMER DRAFT**

Maximum summer draft for which the structural strength of the ship has been designed.

**MBL**

Minimum breaking load of a new mooring line or chain, as declared by the manufacturer. It does not include allowance for splicing (mooring line) or for wear and tear.

**MINIMUM YIELD LOAD**

The mooring load applied to a mooring fitting (eg. Bow fairlead, bow chain stopper) that, if exceeded, would cause permanent (plastic) deformation of the fitting, its components or foundations and, therefore, impair or otherwise compromise its continued safe use.

**MOORING HAWSER**

An assembly of rope and fittings, terminations, flotation aids and anti-chafe protection.

**NEW WET BREAKING STRENGTH (NWBS)**

The average breaking strength of prototype ropes that have been soaked in water and conditioned by 10 load cycles.

**OCIMF**

Oil Companies International Marine Forum, a London based organisation of marine representatives from SPM terminal operators, primarily oil companies.

**PTC**

Polyester tubular cloth

**PU**

Polyurethane elastomer

**REFERENCE LOAD**

A nominal pre-tension load, approximately 1% of the breaking load, which is applied to the rope to remove slack when taking certain measurements.



**Offspring International Ltd**

Unit 8, Castle Court, Castlegate Way, Dudley, West Midlands, DY1 4RH. UK

Tel: +44 1384 453880 / Fax: +44 1384 453888

Email: [mail@offspringinternational.com](mailto:mail@offspringinternational.com) / Web: [www.offspringinternational.com](http://www.offspringinternational.com)

**World-wide Sales Agents for Deep Water Mooring and Single Point Mooring**



**ROPE SIZE**

Is a number approximately equivalent to the nominal diameter measured in mm.

**ROPE STRENGTH FACTOR**

The ratio of the strength of the finished rope to the sum of the strengths of the rope yarns used to make the rope.

**SAFE WORKING LOAD (SWL)**

A load less than the yield or breaking load by a safety factor defined by a code, standard or good engineering practice.

**SHUTTLE TANKER**

An oil tanker specially designed or adapted for loading at offshore terminals requiring specialised mooring or bow loading equipment.

**SINGLE POINT MOORING (SPM)**

An integrated mooring arrangement for bow mooring a conventional tanker. For example conventional tanker bow mooring arrangements to Catenary Anchor Leg Mooring (CALM) system, Single Anchor Leg Mooring (SALM) system, FPSO or FSO.

**SINGLE ROPE ASSEMBLY**

An assembly of a single rope with terminations at each end. Ancillary equipment fitted as requested.

**SPLICED EYE**

A loop formed at the end of a rope and secured by interweaving the strands or braids.

**TANDEM MOORING**

A hawser-mooring arrangement between two vessels, either bow-to-bow or bow-to-stern. It is normally taken to mean a mooring arrangement between the bow of a conventional tanker and the stern of bow of a FPSO or FSO.



**Offspring International Ltd**  
Unit 8, Castle Court, Castlegate Way, Dudley, West Midlands, DY1 4RH. UK  
Tel: +44 1384 453880 / Fax: +44 1384 453888  
Email: [mail@offspringinternational.com](mailto:mail@offspringinternational.com) / Web: [www.offspringinternational.com](http://www.offspringinternational.com)

**World-wide Sales Agents for Deep Water Mooring and Single Point Mooring**