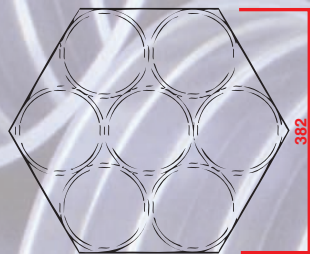
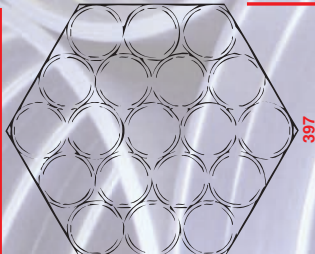


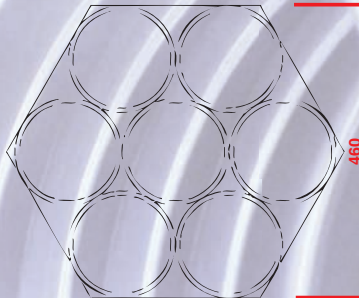
PACKAGING FOR TRANSPORT



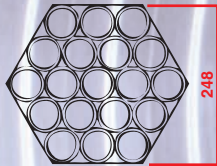
PWT Bundle 7



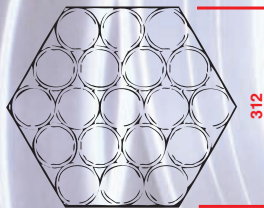
**HO - HR0
Bundle 19**



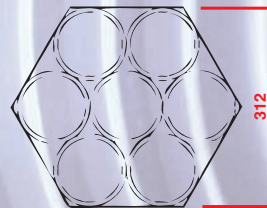
SW Bundle 7



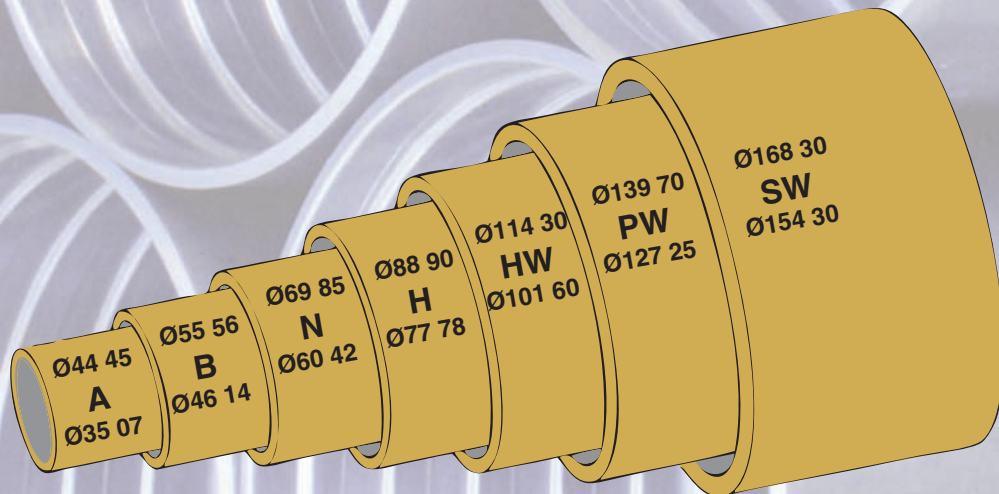
**BO - BRO
Bundle 19**



**NO - NCHD - NRO
NT - Bundle 19**



**HWT
Bundle 7**



AFKOS

AFKOS INDUSTRIES

AUSTRALIAN PRODUCTS
DRILL RODS AND CONSUMABLES MANUFACTURER

- PERTH - HEAD OFFICE: 15 MACADAM PLACE BALCATTA WA 6021
- TELEPHONE: 0061-8-9345 4333 • FAX: 0061-8-9345 4167
- EMAIL: afkos@q-net.net.au • WEB: www.afkos.com.au

DRILL ROD SPECIFICATIONS



- WIRELINE DRILL RODS WITH ENHANCED HEAT TREATMENT
WORLD WIDE INDUSTRY STANDARD THREAD
AVAILABLE IN 3.00 AND 1.50 METER LENGTHS



• WIRELINE DRILL RODS • SPECIAL SUBS

• CORE BARRELS • WATER SWIVELS • HOISTING PLUGS

Drill Rod Description		AO	AT	ATT	AW	BO	BRO	BROTK	BT	BTT	NO	NMO	NRO
OUTSIDE DIAMETER	mm	44.45	44.45	44.45	44.45	55.56	55.56	56.25	55.56	56.70	69.85	69.85	69.85
INSIDE DIAMETER	mm	35.07	35.07	36.60	35.07 • 16.20	46.14	46.14	48.40	46.14	48.40	60.42	60.42	60.42
WALL THICKNESS	mm	4.7	4.7	3.9	4.7	4.7	4.7	3.9	4.7	4.2	4.7	4.7	4.7
PIN END LENGTH	mm	44.5		44.5	50.4	44.5	44.5	44.5	50.8	44.5	44.5	44.5	44.5
THREAD PITCH	mm	8.5	8.5	10.2	8.5	8.5	8.5	7.3	10.16	8.5	8.5	8.5	8.5
ROD WEIGHT	Kg/m	4.75	4.75	4.65	3.83	6.10	6.10	4.98	6.03	4.98	7.78	7.78	7.78
ROD CONTENT VOLUME	L/m	0.97	0.97	1.05	0.97	1.67	1.67	1.84	1.67	1.84	2.87	2.873	2.87
HOLE VOLUME	L/m	1.8	1.8	1.8	1.8	2.8	2.8	2.8	2.8	2.8	4.5	4.5	4.5
ROD/HOLE ANNULUS VOLUME	L/m	0.25	0.25	0.25	0.25	0.40	0.40	0.40	0.40	0.40	0.67	0.67	0.67
THEORETICAL MAX DRILLING DEPTH	m	-	-	-	800	1500	3000	1500	1800	1800	2000	2000	3000
RATED MAX PULLBACK	kN	-	-	-	80	100	250	200	100	-	135	140	330
RATED MAX DRILLING TORQUE	Nm	-	-	-	400	500	1500	890	510	-	770	-	2200
MIN MAKE UP TORQUE TO 1000M	Nm	340	340	340	340	400	400	400	400	400	600	600	600
MIDBODY MIN YIELD STRENGTH	MPa	710	710	710	710	710	710	710	710	710	710	710	710
MIDBODY MIN TENSILE STRENGTH	MPa	820	820	820	820	820	820	820	820	820	820	820	820
DISPLACEMENT VOLUME	L/m	0.59	0.59	0.59	0.59	0.76	0.76	0.76	0.76	0.76	0.97	0.97	0.97
BURST PRESSURE-BOX SHOULDER	MPa	55	55	55	55	50	50	50	50	50	45	45	45
BURST PRESSURE-MIDBODY	MPa	100	100	100	100	90	90	90	90	90	75	75	75
COLLAPSE PRES-SURE-MIDBODY	MPa	100	100	100	100	95	95	95	95	95	70	70	70

• MidBody Inside Dia. Tool Joint Inside Dia.

- Our ratings have been calculated and are based on qualified drilling crews and theoretical specifications on our range of rods with enhanced heat treatment, as well as non heat treated casing.
- These results can be reasonably expected under normal ground condition but no guarantee can be applied.

NHD	NO UWall	NRO UWall	NT	HO	HRO	HO UWall	HRO UWall	HT	HWT	HWC	HWRT	PWT	PWC	SWC	SWT
69.85	69.85	69.85	69.85	88.90	88.90	88.90	88.90	88.90	114.3	114.3	114.3	139.7	139.7	168.3	168.3
60.22 • 54.99	61.82 • 60.53	61.82 • 60.53	60.42	77.78	77.78	80.86 • 77.78	80.86 • 77.78	77.78	101.6	101.6	101.6	127.25	127.25	154.3	154.3
7.4	4.0	4.0	4.7	5.6	5.6	4.0	4.0	5.6	6.35	6.35	6.35	6.2	6.2	7.0	7.0
51.2	44.5	44.5	55.5	44.5	44.5	44.5	44.5	55.5	63.5	76.2	63.5	63.5	82.6	85.7	63.5
10.2	8.5	8.5	12.7	8.5	8.5	8.5	8.5	12.7	10.2	6.4	10.2	10.2	8.5	8.5	10.2
8.77	6.87	6.87	7.78	11.75	11.75	9.20	9.20	11.75	17.60	17.60	17.60	21.58	21.58	29.22	29.22
2.85	3.00	3.00	2.87	4.75	4.75	5.14	5.14	4.75	8.11	8.11	8.11	12.7	12.7	18.7	18.7
4.5	4.5	4.5	4.5	7.3	7.3	7.3	7.3	7.3	11.8	11.8	11.8	16.7	16.7	23.7	23.7
0.67	0.67	0.67	0.67	1.00	1.00	1.00	1.00	1.00	1.60	1.60	1.60	1.40	1.40	1.6	1.6
3000	2000	3300	2000	1500	2500	2000	3000	1750	1500	1200	1200	1200	1200	-	-
300	-	300	145	200	500	-	-	200	450	-	-	535	535	-	-
2200	770	2200	810	1450	3000	1450	3000	1600	2600	2600	2600	2800	2800	-	-
600	600	600	600	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
710	710	710	710	710	710	710	710	710	710	710	710	710	710	710	710
820	820	820	820	820	820	820	820	820	820	820	820	820	820	820	820
0.97	0.97	0.97	0.97	1.50	1.50	1.50	1.50	1.50	2.16	2.16	2.16	2.70	2.70	3.55	3.55
50	45	45	45	40	40	40	40	40	30	30	30	15	15	10	10
70	75	75	75	60	60	60	60	60	60	60	60	45	45	35	35
70	70	70	70	60	60	60	60	60	65	65	65	50	50	40	40

Date 10th October 1994