

NEW SBO NONMAG Material

July 2013

SBO Top Management decision was made to approve a new 'upgraded P530' for Schlumberger Non Mag Material Specification SH619255 Rev. AM. Aim is to provide material with a competitive price in particular for the Asian market.

The New Brand name is: P 540

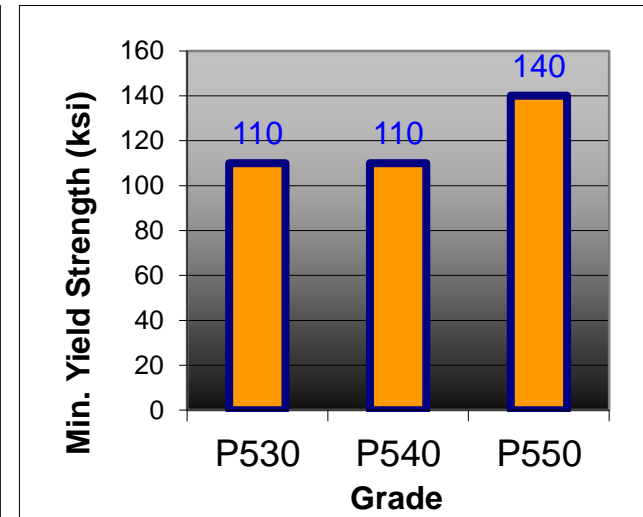
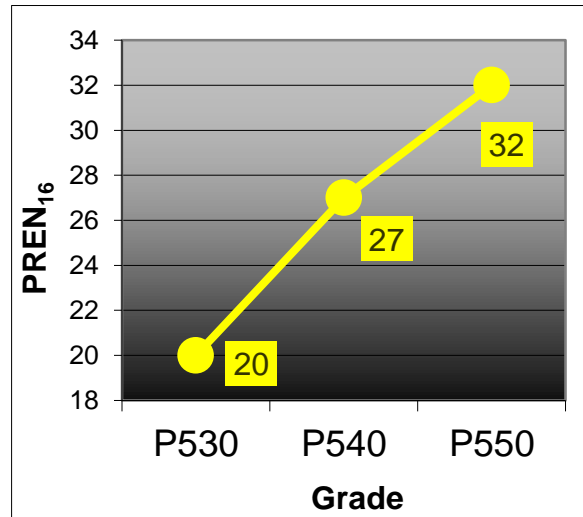
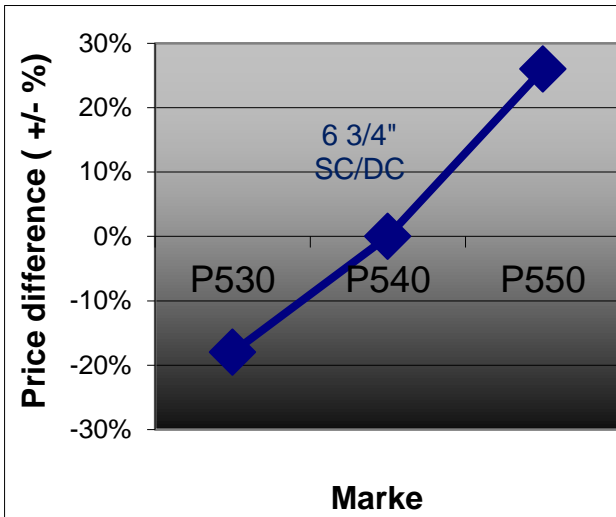


General Information: Alloy Composition in weight percent (%)

Grade (typical values)	C (%)	Mn (%)	Cr (%)	Mo (%)	Ni (%)	N (%)
P530	0,03	20,0	13,5	0,4	1,1	0,30
P540 *)	0,04	19-19,6	17 – 18	0,3-0,4	0,7-1,2	>0,55
P550	0,04	21,2	19,0	0,50	1,7	0,68

*) Heat: on order n.n. (30mto melt)

General Information: Corrosion Behaviour – Mech. Strength - Price



Grade	Pricedifference Δ (incl. Alloy rider, OD 6 3/4")	PREN ₁₆	Minimum mech. Yield Strength (ksi)
P530	-20 %	20	110
P540	1	>= 27	110
P550	+ 25 %	32	140

$$PREN_{16} = Cr + 3.3 * Mo + 16 * N$$

General Information:

The chemical composition fills the gap between P530 and P550

Mill price on P540 is in average about 20 % cheaper than P550

The expected corrosion behaviour (PREN₁₆) value is in between P530 and P550

P540 can be delivered with a minimum Yield Strength of 110 ksi Yield Strength. The production process at Bohler is similar to P530.