

APPROVED:	HAWKER DE HAVILLAND AUSTRALIA PTY. LTD.	SHEET No. OF SHTS
APPROVED:		No:
DATE:		COMPILED:

	BS 588C (hardened & tempered)	BS 5517 (HT) replaces BS 588 7 DTD 138A	SAE 4130 MIL-S-18729 HT-180 CA104-180	SAE 8630 MIL-S-18728 HT-180 CA 154-180
UTS	—	75-85 ton (168-190 KSI)	80.3 ton (180 KSI)	80.3 ton (180 KSI)
.1% proof	65-75 ton (145-168 KSI)	65 ton (145 KSI)	.2% proof 73.6 ton (165 KSI)	.2% proof 73.6 ton (165 KSI)
E long	5% for sheet > Not specified for thickness < .104"	.104"	3% for sheet <	.032" thick
f s	48 ton			
f b	120 "			
Carbon	.25 - .35%	.42 - .50%	.27 - .33	.27 - .33
Silicon	.30 max	.10 - .35	.20 - .35	.20 - .35
Manganese	.70 "	1.3 - 1.7	.40 - .60	.70 - .90%
Nickel	3 - 5%	—	—	.40 - .70
Chromium	.5 - 1.5	—	.80 - 1.1	.40 - .60
Sulfur	0.05 max	0.05 max	.025	.025
Phosphorus	0.05 "	0.05 "	.025	.025
Vanadium	Optional .25 max	—	—	—
Molybdenum	.5 max	—	.15 - .25	.15 - .25
Tungsten	1.0 max	—	—	—

1 quoted spec

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Note: Rough Spec requires hardened & tempered strip to be bent 180° without cracking  
 Sheet .023" & thinner 2T hardened  
 " .024" - .039 3T " "

The manufacturers found collection of correct material required a Vanadium (Hawker) recently which is similar to the (Vanadium) and they may be able to assist with a supplier for the BS 588 strip and also information regarding the forming of the strip into the required shape. This was possibly done on progressive rollers by the original manufacturer or a contractor  
 FRANK BROWN