

 HILLFOOT METALS SUPPLY CHAIN INNOVATION	MATERIAL DATASHEET	
	Hy- tuff AMS6425	Page 1 of 1

Material Grade: **Hy- Tuff AMS6425**

Supply condition (s): **Annealed (bars)**

Associated standards:¹ **AMS6425 Rev F**

Melting/refining method(s): **VAR**

Typical tolerance(s): **AMS2251 (may vary between producers).**

1. TYPICAL CHEMICAL COMPOSITION

%	<u>C</u>	<u>Mn</u>	<u>Si</u>	<u>P</u>	<u>S</u>	<u>Cr</u>	<u>Ni</u>	<u>Mo</u>	<u>Cu</u>
Min	0.23	1.2	1.3			0.2	1.65	0.35	
Max	0.28	1.5	1.7	0.01	0.01	0.4	2	0.45	0.35

2. TYPICAL MECHANICAL PROPERTIES

Test type				Tensile and hardness test (at room temperature)						Impact test (KCV)
				0.2 % proof	UTS (Rm)	Elong (4D) (A)	R of A (Z) individual	R of A (Z) average	Hardness	Room Temp
Condition	Solid bar nominal diameter <i>d</i>	Direction	Unit	N/mm ² (KSI)	N/mm ² (KSI)	%	%	%	-	J
Annealed (Condition of supply)	-	-	Min	-	-	-	-	-	-	-
			Max	-	-	-	-	-	293	-
Heat treated as per spec TEST SAMPLE ONLY	≤ 63.5mm (2.5")	L	Min	1276 (185)	1517 (220)	10	30	-	-	-
			Max	-	-	-	-	-	-	-
Heat treated as per spec TEST SAMPLE ONLY	>2.5" (63.5MM) ≤285mm (11.25")	T	Min	1276 (185)	1517 (220)	-	30	25	-	-
			Max	-	-	-	-	-	-	-
Heat treated as per spec TEST SAMPLE ONLY	>285mm (11.25") ≤343mm (13.5")	T	Min	1276 (185)	1517 (220)	-	25	20	-	-
			Max	-	-	-	-	-	-	-
Heat treated as per spec TEST SAMPLE ONLY	>285mm (11.25") ≤425mm (16.75")	T	Min	1276 (185)	1517 (220)	-	20	15	-	-
			Max	-	-	-	-	-	-	-

¹ valid at the time of writing.

Whilst great care and attention has been paid to compose this datasheet but we will not take the responsibility for any errors.