

Jobber Length

HSS HEAVY-DUTY NAS 907B

Type 190-ACN, Type 190-ALN

- Heavy-duty construction for drilling in tougher materials
- Manufactured from premium high-speed steel
- 135° split point is self-centering for reducing thrust and easier penetration
- Provides exceptional oxidation resistance and extreme hardness
- TiCN is harder and has a lower coefficient of friction than TiN coating.
- Recommended where moderate temperatures are generated.
- Manufactured to **NAS 907B** aerospace specification



TiCN Coating

Titanium carbon nitride (TiCN) coating raises cutting surface hardness greatly increasing resistance to wear.



TiAlN Coating

Titanium aluminum nitride (TiAlN) designed for use in high temperature operations and difficult to machine material

FRACTIONAL

Type 190- ACN TiCN Coated Part Number	Type 190-ALN TiAlN Coated Part Number	Diameter Inches	Overall Length Inches	Flute Length Inches	Qty. per/Pack
80002	80000	1/16	1-7/8	7/8	6
80012	80010	5/64	2	1	6
80022	80020	3/32	2-1/4	1-1/4	6
80032	80030	7/64	2-5/8	1-1/2	6
80042	80040	1/8	2-3/4	1-5/8	6
80052	80050	9/64	2-7/8	1-3/4	6
80062	80060	5/32	3-1/8	2	6
80072	80070	11/64	3-1/4	2-1/8	6
80082	80080	3/16	3-1/2	2-5/16	6
80092	80090	13/64	3-5/8	2-7/16	6
80102	80100	7/32	3-3/4	2-1/2	6
80112	80110	15/64	3-7/8	2-5/8	6
80122	80120	1/4	4	2-3/4	6
80132	80130	17/64	4-1/8	2-7/8	6
80142	80140	9/32	4-1/4	2-15/16	6
80152	80150	19/64	4-3/8	3-1/16	3
80162	80160	5/16	4-1/2	3-3/16	3
80172	80170	21/64	4-5/8	3-5/16	3
80182	80180	11/32	4-3/4	3-7/16	3
80192	80190	23/64	4-7/8	3-1/2	3
80202	80200	3/8	5	3-5/8	3
80212	80210	25/64	5-1/8	3-3/4	3
80222	80220	13/32	5-1/4	3-7/8	3
80232	80230	27/64	5-3/8	3-15/16	3
80242	80240	7/16	5-1/2	4-1/16	3
80252	80250	29/64	5-5/8	4-3/16	3
80262	80260	15/32	5-3/4	4-5/16	3
80272	80270	31/64	5-7/8	4-3/8	3
80282	80280	1/2	6	4-1/2	3

LETTER

Type 190- ACN TiCN Coated Part Number	Type 190-ALN TiAlN Coated Part Number	Diameter Inches	Overall Length Inches	Flute Length Inches	Qty. per/Pack
80292	80290	A	3-7/8	2-5/8	6
80302	80300	B	4	2-3/4	6
80312	80310	C	4	2-3/4	6
80322	80320	D	4	2-3/4	6
80332	80330	E	4	2-3/4	6
80342	80340	F	4-1/8	2-7/8	6
80352	80350	G	4-1/8	2-7/8	6
80362	80360	H	4-1/8	2-7/8	6
80372	80370	I	4-1/8	2-7/8	6
80382	80380	J	4-1/8	2-7/8	6
80392	80390	K	4-1/4	2-15/16	6
80402	80400	L	4-1/4	2-15/16	6
80412	80410	M	4-3/8	3-1/16	3
80422	80420	N	4-3/8	3-1/16	3
80432	80430	O	4-1/2	3-3/16	3

Letter sizes continued on page 13

TiCN / TiAlN

Twist Drills - HSS Heavy-Duty NAS 907B

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LETTER

Type 190- ACN TiCN Coated Part Number	Type 190-ALN TiAlN Coated Part Number	Diameter Inches	Overall Length Inches	Flute Length Inches	Qty. per/Pack
80442	80440	P	4-5/8	3-5/16	3
80452	80450	Q	4-3/4	3-7/16	3
80462	80460	R	4-3/4	3-7/16	3
80472	80470	S	4-7/8	3-1/2	3
80482	80480	T	4-7/8	3-1/2	3
80492	80490	U	5	3-5/8	3
80502	80500	V	5	3-5/8	3
80512	80510	W	5-1/8	3-3/4	3
80522	80520	X	5-1/8	3-3/4	3
80532	80530	Y	5-1/4	3-7/8	3
80542	80540	Z	5-1/4	3-7/8	3

WIRE

Type 190- ACN TiCN Coated Part Number	Type 190-ALN TiAlN Coated Part Number	Diameter Inches	Overall Length Inches	Flute Length Inches	Qty. per/Pack
80552	80550	1	3-7/8	2-5/8	6
80562	80560	2	3-7/8	2-5/8	6
80572	80570	3	3-3/4	2-1/2	6
80582	80580	4	3-3/4	2-1/2	6
80592	80590	5	3-3/4	2-1/2	6
80602	80600	6	3-3/4	2-1/2	6
80612	80610	7	3-5/8	2-7/16	6
80622	80620	8	3-5/8	2-7/16	6
80632	80630	9	3-5/8	2-7/16	6
80642	80640	10	3-5/8	2-7/16	6
80652	80650	11	3-1/2	2-5/16	6
80662	80660	12	3-1/2	2-5/16	6
80672	80670	13	3-1/2	2-5/16	6
80682	80680	14	3-3/8	2-3/16	6
80692	80690	15	3-3/8	2-3/16	6
80702	80700	16	3-3/8	2-3/16	6
80712	80710	17	3-3/8	2-3/16	6
80722	80720	18	3-1/4	2-1/8	6
80732	80730	19	3-1/4	2-1/8	6
80742	80740	20	3-1/4	2-1/8	6
80752	80750	21	3-1/4	2-1/8	6
80762	80760	22	3-1/8	2	6
80772	80770	23	3-1/8	2	6
80782	80780	24	3-1/8	2	6
80792	80790	25	3	1-7/8	6
80802	80800	26	3	1-7/8	6
80812	80810	27	3	1-7/8	6
80822	80820	28	2-7/8	1-3/4	6
80832	80830	29	2-7/8	1-3/4	6
80842	80840	30	2-3/4	1-5/8	6
80852	80850	31	2-3/4	1-5/8	6
80862	80860	32	2-3/4	1-5/8	6
80872	80870	33	2-5/8	1-1/2	6
80882	80880	34	2-5/8	1-1/2	6
80892	80890	35	2-5/8	1-1/2	6
80902	80900	36	2-1/2	1-7/16	6

Wire sizes continued on page 14

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80912	80910	37	2-1/2	1-7/16	6
80922	80920	38	2-1/2	1-7/16	6
80932	80930	39	2-3/8	1-3/8	6
80942	80940	40	2-3/8	1-3/8	6
80952	80950	41	2-3/8	1-3/8	6
80962	80960	42	2-1/4	1-1/4	6
80972	80970	43	2-1/4	1-1/4	6
80982	80980	44	2-1/8	1-1/8	6
80992	80990	45	2-1/8	1-1/8	6
81002	81000	46	2-1/8	1-1/8	6
81012	81010	47	2	1	6
81022	81020	48	2	1	6
81032	81030	49	2	1	6
81042	81040	50	2	1	6
81052	81050	51	2	1	6
81062	81060	52	1-7/8	7/8	6

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