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**BLOWOUT PRICES on Michigan Drill Cobalt Drills**



**MICHIGAN**  
DRILL & CUTTING TOOLS

**50% OFF LIST PRICES**

**While Quantities Last**

| DESCRIPTION                | CODE        | PRICE | DESCRIPTION                | CODE        | PRICE |
|----------------------------|-------------|-------|----------------------------|-------------|-------|
| L300C #10 JOB DRILL COB    | 010300C1935 | 2.33  | L300C #16 JOB DRILL COB    | 010300C1770 | 1.95  |
| L300C "C" JOB DRILL COB    | 010300C2420 | 4.28  | L300C #40 JOB DRILL COB    | 010300C0980 | 1.20  |
| L300C #13 JOB DRILL COB    | 010300C1850 | 2.30  | L300C #26 JOB DRILL COB    | 010300C1470 | 1.59  |
| L300C #8 JOB DRILL COB     | 010300C1990 | 2.84  | L300C #12 JOB DRILL COB    | 010300C1890 | 2.51  |
| L300C #39 JOB DRILL COB    | 010300C0995 | 1.22  | L300C "I" JOB DRILL COB    | 010300C2770 | 4.86  |
| L300C "L" JOB DRILL COB    | 010300C2900 | 4.76  | L300C "T" JOB DRILL COB    | 010300C3580 | 8.43  |
| L300C 15/64 JOB DRILL COB  | 010300C2344 | 1.67  | L300C "O" JOB DRILL COB    | 010300C3160 | 5.90  |
| L300C "N" JOB DRILL COB    | 010300C3020 | 5.30  | L300C #27 JOB DRILL COB    | 010300C1440 | 1.43  |
| L300C 13/64 JOB. DRILL COB | 010300C2031 | 1.50  | L300C #15 JOB DRILL COB    | 010300C1800 | 2.27  |
| L300C #46 JOB DRILL COB    | 010300C0810 | 1.37  | L300C 21/64 JOB. DRILL COB | 010300C3281 | 3.80  |
| L300C #11 JOB DRILL COB    | 010300C1910 | 2.28  | L300C "W" JOB DRILL COB    | 010300C3860 | 7.20  |
| L300C #5 JOB DRILL COB     | 010300C2055 | 2.82  | L300C #57 JOB DRILL COB    | 010300C0430 | 1.38  |
| L300C 31/64 JOB DRILL COB  | 010300C4844 | 11.51 | L300C "K" JOB DRILL COB    | 010300C2810 | 3.71  |
| L300C 19/64 JOB DRILL COB  | 010300C2969 | 3.51  | L300C "Q" JOB DRILL COB    | 010300C3320 | 5.84  |
| L300C #17 JOB DRILL COB    | 010300C1730 | 1.92  | L300C "R" JOB DRILL COB    | 010300C3390 | 7.10  |
| L300C #52 JOB DRILL COB    | 010300C0635 | 1.07  | L300C #49 JOB DRILL COB    | 010300C0730 | 1.01  |
| L300C 11/64 JOB DRILL COB  | 010300C1719 | 1.07  | L300C #33 JOB DRILL COB    | 010300C1130 | 1.34  |
| L300C "A" JOB DRILL COB    | 010300C2340 | 3.24  | L300C #31 JOB DRILL COB    | 010300C1200 | 1.38  |
| L300C 29/64 JOB DRILL COB  | 010300C4531 | 9.95  | L300C #29 JOB DRILL COB    | 010300C1360 | 1.37  |
| L300C #59 JOB DRILL COB    | 010300C0410 | 1.58  | L300C 9/32 JOB. DRILL COB  | 010300C2812 | 3.39  |
| L300C 9/64 JOB DRILL COB   | 010300C1406 | 1.46  | L300C "P" JOB DRILL COB    | 010300C3230 | 5.01  |
| L300C #3 JOB DRILL COB     | 010300C2130 | 2.67  | L300C 7/16 JOB DRILL COB   | 010300C4375 | 8.22  |
| L300C 23/64 JOB. DRILL COB | 010300C3594 | 3.59  | L300C 7/32 JOB. DRILL COB  | 010300C2188 | 2.46  |
| L300C #41 JOB DRILL COB    | 010300C0960 | 1.38  | L300C "M" JOB DRILL COB    | 010300C2950 | 6.69  |



21 PIECE M42 COBALT SET  
1/16-3/8 by 64ths  
Code: 751127

59.36



26 PIECE M42 COBALT SET  
Sizes A-Z  
Code: 751129

147.90



11 PIECE 135° SPLIT POINT  
1.00mm-6.00mm  
Code: 010433C

28.26



11 PIECE HD 135° SPLIT POINT  
JOBBER LENGTH GOLD M42  
COBALT  
1.0-6.0mm X 0.5mm  
Code: 754715

22.71



19 PIECE HD 135° SPLIT POINT  
JOBBER LENGTH GOLD M42  
COBALT  
1.0-10.0mm X 0.5mm  
Code: 754716

70.16

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## BLOWOUT PRICES on Drill Rods

# 50% OFF LIST PRICES

### While Quantities Last



- Oil hardening
- 36" length
- Ground and polished

| DESCRIPTION                | CODE   | PRICE  |
|----------------------------|--------|--------|
| 1 15/16 X 36 0-1 DRILL ROD | 219598 | 319.79 |
| 1 7/8 X 36 0-1 DRILL ROD   | 219599 | 299.48 |
| 1 13/16 X 36 0-1 DRILL ROD | 219600 | 91.20  |
| 1 15/32 X 36 0-1 DRILL ROD | 219605 | 110.43 |
| 1 5/32 X 36 0-1 DRILL ROD  | 219615 | 125.61 |
| 63/64 X 36 0-1 DRILL ROD   | 219622 | 55.04  |
| 61/64 X 36 0-1 DRILL ROD   | 219624 | 32.31  |
| 15/16 X 36 0-1 DRILL ROD   | 219625 | 36.71  |
| 59/64 X 36 0-1 DRILL ROD   | 219626 | 48.32  |
| 57/64 X 36 0-1 DRILL ROD   | 219628 | 25.65  |
| 7/8 X 36 0-1 DRILL ROD     | 219629 | 41.18  |
| 27/32 X 36 0-1 DRILL ROD   | 219631 | 15.71  |
| 53/64 X 36 0-1 DRILL ROD   | 219632 | 38.94  |
| 51/64 X 36 0-1 DRILL ROD   | 219634 | 20.55  |
| 25/32 X 36 0-1 DRILL ROD   | 219635 | 16.77  |
| 47/64 X 36 0-1 DRILL ROD   | 219638 | 19.62  |
| 21/32 X 36 0-1 DRILL ROD   | 219643 | 36.92  |
| 9/16 X 36 0-1 DRILL ROD    | 219649 | 27.42  |
| 35/64 X 36 0-1 DRILL ROD   | 219650 | 11.00  |
| 33/64 X 36 0-1 DRILL ROD   | 219652 | 9.57   |
| 7/16 X 36 0-1 DRILL ROD    | 219657 | 21.81  |
| 27/64 X 36 0-1 DRILL ROD   | 219658 | 7.08   |
| 'Z' X 36 0-1 DRILL ROD     | 219659 | 6.66   |
| 'V' X 36 0-1 DRILL ROD     | 219665 | 7.22   |
| 3/8 X 36 0-1 DRILL ROD     | 219666 | 14.04  |
| 'S' X 36 0-1 DRILL ROD     | 219670 | 9.38   |
| 11/32 X 36 0-1 DRILL ROD   | 219671 | 6.03   |

| DESCRIPTION                    | CODE   | PRICE |
|--------------------------------|--------|-------|
| 'Q' X 36 0-1 DRILL ROD         | 219673 | 3.23  |
| 5/16 X 36 0-1 DRILL ROD        | 219677 | 8.87  |
| 9/32 X 36 0-1 DRILL ROD        | 219682 | 5.76  |
| 1/4 X 36 0-1 DRILL ROD (0.250) | 219690 | 8.27  |
| 'B' X 36 0-1 DRILL ROD         | 219693 | 3.81  |
| 7/32 X 36 0-1 DRILL ROD        | 219698 | 4.56  |
| #3 X 36 0-1 DRILL ROD          | 219699 | 3.09  |
| #4 X 36 0-1 DRILL ROD          | 219700 | 4.17  |
| 3/16 X 36 0-1 DRILL ROD        | 219709 | 6.20  |
| #15 X 36 0-1 DRILL ROD         | 219713 | 2.27  |
| 32 X 36 0-1 DRILL ROD          | 219734 | 2.04  |
| #33 X 36 0-1 DRILL ROD         | 219735 | 2.06  |
| 34 X 36 0-1 DRILL ROD          | 219736 | 1.68  |
| 39 X 38 0-1 DRILL ROD          | 219742 | 1.19  |
| 40 X 36 0-1 DRILL ROD          | 219743 | 1.20  |
| 43 X 36 0-1 DRILL ROD          | 219747 | 1.92  |
| 45 X 36 0-1 DRILL ROD          | 219749 | 1.89  |
| 48 X 36 0-1 DRILL ROD          | 219753 | 1.29  |
| 4MM X 36 0-1 DRILL ROD         | 219761 | 5.07  |
| 8MM X 36 0-1 DRILL ROD         | 219765 | 11.13 |
| 10MM X 36 0-1 DRILL ROD        | 219767 | 19.38 |
| 18MM X 36 0-1 DRILL ROD        | 219775 | 47.39 |
| 21MM X 36 0-1 DRILL ROD        | 219778 | 71.73 |
| 22MM X 36 0-1 DRILL ROD        | 219779 | 41.04 |
| 25MM X 36 0-1 DRILL ROD        | 219782 | 96.50 |
| L950D #69 DRILL BLANK          | 219785 | 2.04  |

#### HEAT TREATMENT

Preheat: 1200°F until thoroughly soaked. Harden at 1475°F. Hold 20 minutes per inch of greatest cross-section after tool reaches furnace temperature (minimum holding time – 20 minutes). Quench in warm oil to 150°F. Temper immediately 2 hours per inch of greatest cross-section at temperatures shown to achieve the desired hardness.

#### STANDARD TOLERANCES

##### SIZE RANGE (inches)

|                   |         |
|-------------------|---------|
| 2.000 to 0.500    | ±0.001  |
| 0.499 to 0.125    | ±0.0005 |
| 0.124 and smaller | ±0.0003 |

#### PRODUCT

ANSI 01 ground and polished drill rod

#### TYPICAL ANALYSIS

C .95, MN 1.20, Si .35, Cr .50, W .50

#### TEMPERING

| Tempering Temp. °F | Hardness Rockwell C |
|--------------------|---------------------|
| None               | 65                  |
| 300                | 63                  |
| 350                | 61                  |
| 400                | 60.5                |
| 450                | 59                  |
| 500                | 58                  |
| 600                | 56                  |
| 800                | 48-49               |

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