



Grant 2002-DT-CX-K001
 ID No. 065595
 MJO 118

Noise Flash Diversionary Device (NFDD)

PO T429



DESCRIPTION:

Tactical Device
 Single use
 Cardboard (pressed paper) body

Vents axially
 Ejects Base Cap

Pull Ring Safety
 Avg. Assembly Wt
 Pre Test: 6.94 oz
 Post Test: 2.97 oz

PACKAGING:

9.25" H 9.5" W 14" L 12.23 lbs Cardboard Box
 1 per sealed anti-static plastic bag
 w/ dessicant



PO T429

| TEST | PART S/N | GROSS WEIGHT | | IGNITION DELAY sec. | BURN sec. | 6 FEET | | | | RADIANT FLUX J | 9 FEET | | | | RADIANT FLUX J | 12 FEET | | | | | | | |
|------|-------------|--------------|---------------|---------------------|-----------|--------|-----------|--------------------|---------|----------------|--------|-----------|--------------------|--------|----------------|---------|-----------|--------------------|--------|------|-----------|--------------------|----|
| | | PRE-TEST oz | POST TEST* oz | | | PEAK | | ACOUSTIC NOISE psi | db | | PEAK | | ACOUSTIC NOISE psi | db | | PEAK | | ACOUSTIC NOISE psi | db | PEAK | | ACOUSTIC NOISE psi | db |
| | | | | | | LUX | ft-candle | | | | LUX | ft-candle | | | | LUX | ft-candle | | | | | | |
| | | | | | | | | | | | | | | | | | | | | LUX | ft-candle | | |
| 1 | 429-01-0462 | 6.96 | 3.95 | 2.11 | 0.0073 | 3.41 | 181 | 15521926 | 1441987 | 0.7 | 1.72 | 175 | 8118001 | 754162 | 0.3 | 1.00 | 171 | 4747943 | 441084 | 0.2 | | | |
| 2 | 429-01-0466 | 6.96 | 3.85 | 1.50 | 0.0066 | 2.86 | 180 | 16539323 | 1536503 | 0.6 | 1.74 | 176 | 7906271 | 734493 | 0.3 | 1.12 | 172 | 4811803 | 447017 | 0.2 | | | |
| 3 | 429-01-0468 | 6.74 | 3.90 | 2.07 | 0.0074 | 2.63 | 179 | 15301727 | 1421530 | 0.6 | 1.53 | 174 | 7333508 | 681283 | 0.3 | 0.95 | 170 | 4380147 | 406916 | 0.2 | | | |
| 4 | 429-01-0459 | 6.96 | 3.90 | 2.12 | 0.0080 | 2.52 | 179 | 14550086 | 1351703 | 0.7 | 1.72 | 175 | 7838654 | 728211 | 0.4 | 1.02 | 171 | 4650410 | 432023 | 0.2 | | | |
| 5 | 429-01-0467 | 6.96 | 3.95 | 1.92 | 0.0069 | 3.15 | 181 | 11728408 | 1089569 | 0.4 | 1.52 | 174 | 6690600 | 621557 | 0.3 | 0.99 | 171 | 3735805 | 347056 | 0.1 | | | |
| 6 | 429-01-0465 | 7.00 | 3.95 | 2.05 | 0.0078 | 2.54 | 179 | 12593359 | 1169923 | 0.6 | 1.43 | 174 | 5871614 | 545473 | 0.3 | 0.96 | 170 | 3601937 | 334620 | 0.2 | | | |
| 7 | 429-01-0475 | 7.00 | 3.85 | 2.26 | 0.0074 | 2.64 | 179 | 15240530 | 1415845 | 0.6 | 1.88 | 176 | 8347626 | 775494 | 0.3 | 1.20 | 172 | 4915619 | 456661 | 0.2 | | | |
| 8 | 429-01-0474 | 6.90 | 3.95 | 2.11 | 0.0058 | 4.27 | 183 | 12833092 | 1192194 | 0.4 | 1.66 | 175 | 6684180 | 620960 | 0.2 | 1.23 | 173 | 3842148 | 356936 | 0.1 | | | |
| 9 | 429-01-0472 | 6.96 | 3.90 | 1.92 | 0.0071 | 3.12 | 181 | 14659502 | 1361868 | 0.6 | 1.55 | 175 | 7904974 | 734372 | 0.3 | 1.04 | 171 | 4650410 | 432023 | 0.2 | | | |
| 10 | 429-01-0473 | 6.90 | 4.00 | 2.13 | 0.0072 | 2.34 | 178 | 15925716 | 1479499 | 0.6 | 1.40 | 174 | 8325907 | 773477 | 0.3 | 0.95 | 170 | 4990681 | 463634 | 0.2 | | | |
| 11 | 429-01-0470 | 6.96 | 3.95 | 1.84 | 0.0054 | 2.47 | 179 | 14260835 | 1324832 | 0.4 | 1.56 | 175 | 7282488 | 676543 | 0.2 | 1.23 | 173 | 4333840 | 402614 | 0.1 | | | |
| 12 | 429-01-0469 | 6.96 | 3.95 | 2.12 | 0.0072 | 2.69 | 179 | 16123786 | 1497900 | 0.7 | 1.65 | 175 | 7575836 | 703795 | 0.3 | 1.01 | 171 | 4498989 | 417956 | 0.2 | | | |
| 13 | 429-01-0471 | 6.85 | 3.95 | 2.08 | 0.0061 | | | 14312948 | 1329673 | 0.5 | 1.52 | 174 | 7580959 | 704271 | 0.3 | 0.98 | 171 | 4400159 | 408775 | 0.2 | | | |
| 14 | 429-01-0460 | 6.90 | 3.95 | 2.26 | 0.0082 | 2.93 | 180 | 16717791 | 1553083 | 0.8 | 1.65 | 175 | 8670344 | 805475 | 0.4 | 1.08 | 171 | 5158358 | 479211 | 0.2 | | | |
| 15 | 429-01-0476 | 7.00 | 3.95 | 2.12 | 0.0066 | 3.77 | 182 | 17980112 | 1670352 | 0.7 | 1.75 | 176 | 8496862 | 789358 | 0.3 | 1.01 | 171 | 4870541 | 452473 | 0.2 | | | |
| 16 | 429-01-0477 | 6.90 | 3.85 | 2.12 | 0.0068 | 2.27 | 178 | 13665532 | 1269528 | 0.5 | 1.47 | 174 | 7904974 | 734372 | 0.3 | 0.98 | 171 | 4606562 | 427950 | 0.2 | | | |
| 17 | 429-01-0479 | 6.96 | 3.90 | 1.95 | 0.0062 | 2.57 | 179 | 16113336 | 1496929 | 0.6 | 1.62 | 175 | 7986592 | 741954 | 0.3 | 1.10 | 172 | 4918146 | 456896 | 0.2 | | | |
| 18 | 429-01-0481 | 6.96 | 3.90 | 2.14 | 0.0062 | 2.75 | 180 | 13872686 | 1288773 | 0.5 | 1.74 | 176 | 7254416 | 673935 | 0.2 | 1.02 | 171 | 4287533 | 398312 | 0.1 | | | |
| 19 | 429-01-0480 | 6.96 | 3.85 | 2.33 | 0.0058 | 2.98 | 180 | 13076718 | 1214827 | 0.4 | 1.71 | 175 | 7119182 | 661372 | 0.2 | 1.08 | 171 | 4108655 | 381694 | 0.1 | | | |
| 20 | 429-01-0478 | 7.07 | 3.95 | 2.05 | 0.01 | 2.61 | 179 | 15787682 | 1466676 | 0.6 | 1.60 | 175 | 7788864 | 723585 | 0.3 | 1.12 | 172 | 4667895 | 433647 | 0.2 | | | |

| | | | | | | | | | | | | | | | | | | | |
|----------|------|------|------|--------|------|-----|----------|---------|-----|------|-----|---------|--------|-----|------|-----|---------|--------|-----|
| Min | 6.74 | 3.85 | 1.50 | 0.0054 | 2.27 | 178 | 11728408 | 1089569 | 0.4 | 1.40 | 174 | 5871614 | 545473 | 0.2 | 0.95 | 170 | 3601937 | 334620 | 0.1 |
| Max | 7.07 | 4.00 | 2.33 | 0.0082 | 4.27 | 183 | 17980112 | 1670352 | 0.8 | 1.88 | 176 | 8670344 | 805475 | 0.4 | 1.23 | 173 | 5158358 | 479211 | 0.2 |
| Range | 0.33 | 0.15 | 0.84 | 0.0028 | 2.00 | 5 | 6251704 | 580783 | 0.3 | 0.48 | 3 | 2798729 | 260002 | 0.1 | 0.28 | 2 | 1556420 | 144591 | 0.1 |
| Std. Dev | 0.1 | 0.0 | 0.2 | 0.0 | 0.5 | 1.4 | 1578978 | 146687 | 0.1 | 0.1 | 0.7 | 687455 | 63865 | 0.0 | 0.1 | 0.7 | 427632 | 39727 | 0.0 |
| Average | 6.94 | 3.92 | 2.06 | 0.0069 | 2.87 | 180 | 14840255 | 1378660 | 0.6 | 1.62 | 175 | 7634092 | 709207 | 0.3 | 1.05 | 171 | 4508879 | 418875 | 0.2 |

Excluded 18.54 196

FRAGMENTATION:

| TEST | PART S/N | PRE-TEST* oz | POST TEST oz | IMPACTS | |
|------|-------------|--------------|--------------|---------|--------------|
| | | | | hits | perforations |
| 21 | 429-01-0482 | 7.07 | 4.10 | 12 | 8 |
| 22 | 429-01-0483 | 6.96 | 3.95 | 10 | 11 |
| 23 | 429-01-0484 | 7.00 | 4.00 | 17 | 3 |

| | | | | |
|----------|------|------|-------|------|
| Std. Dev | 0.1 | 0.1 | 3.6 | 4.0 |
| Average | 7.01 | 4.02 | 13.00 | 7.33 |



Functioned devices



Fragmentation Test



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COLLATERAL EFFECTS:

| ITEM | FIRE START | PROPULSION | DISRUPTION OF ELEMENTS |
|---------|---|------------|------------------------|
| Pillow | No flames observed, slight charring of object | ≈ 12 in | Yes |
| Cushion | No flames observed, charring of object | > 4 ft | Yes |
| Objects | No flames observed | > 4 ft | Yes |



PILLOW TEST

NFDD caused severe damage to witness panel



CUSHION TEST

Base cap ejection drove NFDD off of object. Severe damage to witness panel



OBJECTS TEST

