



# Terabase<sup>®</sup>

*Corporation*

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# About Terabase

**An innovative software solutions company specializing in exceptionally fast searching of large, complex databases**

- Providers of rapid search engine technologies and custom database solutions since 1994
- Past customers include AT&T, IBM, Information Handling Services, Northern Light, PartMiner
- 100% USA small business owned and operated.
- CAGE 1XTS5
- US based Development, Sales and Support





# LogiQuest<sup>®</sup>

## Parts Logistics Research Service

**An up-to-date, comprehensive Web based defense  
logistic data solution for efficient parts and logistic  
data research**

# LogiQuest User Profiles

## Procurement/Supply Chain

- Compare prices
- Identify and vet vendors
- Search by technical characteristic
- View complete procurement history
- Identify substitutable and interchangeable items



## Sales and Marketing

- Identify Gov Sales opportunities
- Monitor Solicitation and Award History
- View Procurement History and FPDS
- Execute Competitive Analysis
- Sell Parts/Open new markets

## Maintenance / Repair

- Identify parts and NSNs
- Compare parts and sources
- Find alternates for obsolete parts
- Clean inventory
- Validate application to end item and systems



## Logistics

- Plan supply chain needs
- Manage bills of material
- Find parts by fit, form function
- Pin point parts with rare earth minerals and precious metals
- Compliance with QPD & Milspecs



# Federal Logistics Information Service (FLIS)

- DLA codifies and manages:
  - 6+ million National Stock Numbers
    - [FSC][ NATO CODE] [Number]
  - 16+ million current Part Numbers
  - 10+ million additional historical parts and NSNs

# Military Standard Item Characteristics

- Parts are tied to technical attributes:
  - **Master Requirement Code (MRC):** A 4 position code assigned to each different approved requirement. The MRC serves to identify the item characteristic by asking the question
  - Reply statements are complex and varied. Aside from dimensions, reply text can cite magnets, rare earth minerals and precious metals across various MRCs
  - Terabase is enhancing its technology to search across all MRCs and replies to extract any needed user references

Categories	Requirement Value(s)	Op	Reply Value(s)	And/Or	NIIN Counts
	Magnet*	=		And	3,281 X
		=	magnet*	And	48,384 X
		=		And	X
		=		And	X
		=		And	X
		=			X

Matching NIIN Count: 244

Search Submit Clear Cancel



# Sample MRC with MAGNET

	A	B	C
1	MRC	Requirement Statement	Requirement Definition
2	ACZX	WINDING SHIELDING METHOD	THE MEANS BY WHICH A PROTECTIVE METAL SCREEN, PLATE, OR INCLOSURE IS PLACED AROUND OR BETWEEN THE WINDINGS OF AN ITEM TO
3	AECC	MAGNETIC CASE	AN INDICATION OF WHETHER OR NOT THE MATERIAL OF THE CASE HAS THE CAPABILITY OF BEING MAGNETIZED.
4	AEXM	HOLDING FORCE	THE AMOUNT OF HOLDING POWER APPLIED TO THE DOOR WHEN MAGNETICALLY ACTIVATED.
5	AFVG	SWITCH ACTUATING POINT IN AMPERE TURNS	THE RATED VALUE OF MAGNETOMOTIVE FORCE REQUIRED TO ACTUATE THE SWITCH.
6	AFVH	SWITCH RELEASE POINT IN AMPERE TURNS	THE RATED VALUE OF MAGNETOMOTIVE FORCE AT WHICH THE CONTACT/S/ WILL RETURN TO ITS UNACTUATED POSITION.
7	AHFT	MAGNETIC SHIELDING	AN INDICATION OF WHETHER OR NOT A MAGNETIC SHIELD IS INCLUDED.
8	AJFU	MAGNET WIDTH	NONE.
9	AJFV	MAGNET PROJECTION LENGTH	NONE.
10	AJGC	MAGNET LIFT RATING	THE MAGNET LIFT RATING AS INDICATED BY THE WEIGHT THAT THE MAGNET WILL RETAIN.
11	ANXF	MAGNET TYPE	INDICATES THE TYPE OF MAGNET INCORPORATED IN THE ITEM.
12	APAF	MAGNETIC COIL QUANTITY	THE NUMBER OF MAGNETIC COILS PROVIDED.
13	ARGC	MAGNETIC FEATURE	AN INDICATION OF WHETHER OR NOT A MAGNETIC FEATURE IS INCLUDED.
14	ASEA	MAGNET QUANTITY	THE NUMBER OF MAGNETS PROVIDED.
15	ATLJ	MAGNETIC PAN STIRRUP	AN INDICATION OF WHETHER OR NOT A MAGNETIC PAN STIRRUP IS INCLUDED.
16	AWZN	MAGNETIC AMPLIFIER	AN INDICATION OF WHETHER OR NOT A MAGNETIC AMPLIFIER/S/ IS INCLUDED.
17	BCPC	MAGNET SIZE	A MEASUREMENT OF THE SURFACE OF A MAGNET.
18	BGLS	MAGNET CURRENT TYPE	INDICATES THE TYPE OF CURRENT WHETHER ALTERNATING, DIRECT, OR BOTH, OF THE MAGNET.
19	BGLT	MAGNET MANUFACTURER NAME	THE NAME OF THE MANUFACTURER OF THE MAGNET.
20	BHMT	MAGNETIC FORCE	THE MAGNETIC FORCE MEASURED AT A SPECIFIED DISTANCE.
21	BKQW	PERMANENT MAGNET	AN INDICATION OF WHETHER OR NOT A PERMANENT MAGNET IS PROVIDED IN THE ITEM.
22	BRBK	MAGNETIC TIP	AN INDICATION OF WHETHER OR NOT A MAGNETIC TIP IS PROVIDED.
23	BRRH	MAGNET YOKE QUANTITY	THE NUMBER OF MAGNET YOKES PROVIDED.
24	BRRJ	MAGNET GAP RANGE ACCOMMODATED	A MEASUREMENT OF THE MINIMUM AND MAXIMUM MAGNET GAPS THE ITEM WILL ACCOMMODATE.
25	BRRK	MAGNET DIAMETER RANGE ACCOMMODATED	A MEASUREMENT OF THE MINIMUM AND MAXIMUM MAGNET DIAMETERS THE ITEM WILL ACCOMMODATE.
26	BXND	STIRRING MAGNET	AN INDICATION OF WHETHER OR NOT A STIRRING MAGNET IS INCLUDED.



# Sample NSN Characteristic Report

Data View • Federal Logistics Information System • Standard View

Search Part List Management Freight Characteristics Item ID Rules Procurement BIZOPPS\_ARC PID SUPPTECH AWARDS CRF D049 ILS Aviation ILS Marine LIRSH MSD N MDF NNRF Projections SNUD SOH Where Used WPS Lead Time

NIIN: 00-003-2993 Item Name: AMMETER

		Characteristics	
MRC	Requirement Statement	Characteristics	Reply Statement
▶ AACT	CIRCUIT CURRENT FOR WHICH DESIGNED	DC	
ABHP	OVERALL LENGTH	2.550 INCHES MAXIMUM	
ABKQ	CENTER TO CENTER DISTANCE BETWEEN MOUNTING FACILITIES PARALLEL TO LENGTH	2.250 INCHES NOMINAL	
ABKR	CENTER TO CENTER DISTANCE BETWEEN MOUNTING FACILITIES PARALLEL TO WIDTH	2.250 INCHES NOMINAL	
ABKW	OVERALL HEIGHT	3.120 INCHES MAXIMUM	
ABMK	OVERALL WIDTH	3.270 INCHES MAXIMUM	
ABWG	SCALE DIVISION QUANTITY	60 SINGLE INDICATOR SINGLE RANGE	
ADAG	MOUNTING STUD LENGTH	0.620 INCHES MAXIMUM	
ADZC	ENVIRONMENTAL PROTECTION	HUMIDITY PROOF	
AKYN	FURNISHED ITEMS AND QUANTITY	TERM. HDW 2	
AMKD	INDICATOR TYPE	DIAL W/POINTER	
AMQY	INSTALLATION DESIGN	PANEL	
ANRL	MOUNTING ARRANGEMENT STYLE	FOUR HOLE/STUD RECTANGULAR/SQUARE	
ANTG	SENSITIVITY RATING	120.0 MILLIVOLTS	
APMM	DIAL SCALE MARKING COLOR	BLACK SINGLE INDICATOR SINGLE RANGE	
APPN	ACCURACY IN PERCENT	-2.0 TO 2.0 AT FULL SCALE SINGLE INDICATOR SINGLE RANGE	
APSN	PANEL FOR WHICH DESIGNED	MAGNETIC OR NONMAGNETIC	
APST	METER DEPTH BEHIND MOUNTING FLANGE	1.160 INCHES MAXIMUM	
APSW	METER BODY DIAMETER BEHIND MOUNTING FLANGE	2.790 INCHES MAXIMUM	
AQEC	MOVEMENT TYPE	MOVING COIL, PERMANENT MAGNET	
AQFY	BACKGROUND COLOR	WHITE SINGLE INDICATOR SINGLE RANGE	
ASSS	POINTER COLOR	BLACK SINGLE INDICATOR SINGLE RANGE	
AWZJ	POWER SOURCE	EXTERNAL	
AXHR	MOUNTING FACILITY TYPE AND QUANTITY	4 THREADED STUD	







# What can be done to mitigate supply chain risk?

- Better Codification by DLA will help identify rare earth minerals, magnets, precious metals
- Discuss viability of adding MRCs for provenance
- Identify OEMs, Suppliers, Distributors within the industry ecosystem that has ownership for the part.
- Tie these parts to platforms, weapon systems and equipment to assess risk and prioritize actions
- Gain deeper insight to potential risk
- Instead of telling you about this idea, I'd rather share our development work to gain your input.

