

# FCC North America

## 863 Test Results

### **Introduction:**

This document contains the format and establishes the data contents of the Test Results Transaction Set (863) for use within the context of Electronic Data Interchange (EDI) environment. The transaction set can be used by a customer to convey precise Test Result requirements to a supplier for each Heat Code.

**Note:** An asterisk (\*) next to a data element qualifier in the name field, where more than one qualifier can be used, indicates that the qualifier is mandatory.

**Data Segment Sequence Table**

**Header Area:**

<u>Seg. ID</u>	<u>Name</u>	<u>ANSI Req Des</u>	<u>Usage Req Des</u>	<u>Max Use</u>	<u>Loop Repeat</u>
ST	Transaction Set Header	M	M	1	
BTR	Beginning Segment for Test Results	M	M	1	
NTE	Note / Special Instructions	F	O	100	
N1	Name	O	M	1	>1

**Detail Area:**

<u>Seg. ID</u>	<u>Name</u>	<u>ANSI Req Des</u>	<u>Usage Req Des</u>	<u>Max Use</u>	<u>Loop Repeat</u>
	<b>Loop ID – LIN</b>				>1
LIN	Item Identification	M	M	1	
PID	Product / Item Description	O	M	5	
	<b>Loop ID – LIN/CID</b>				>1
CID	Characteristics / Class ID	O	M	1	
PSD	Physical Sample Description	O	O	1	
MEA	Measurements	O	M	1	
	<b>Loop ID – LIN/CID/MEA</b>				>1
MEA	Measurements	O	M	1	
DTM	Date / Time Reference	O	O	1	
REF	Reference Numbers	O	O	1	

**Summary Area:**

<u>Seg. ID</u>	<u>Name</u>	<u>ANSI Req Des</u>	<u>Usage Req Des</u>	<u>Max Use</u>	<u>Loop Repeat</u>
CTT	Transaction Total	O	O	1	
SE	Transaction Set Trailer	M	M	1	

**Data Segement Sequence Table – Header Area:**

**Segment:** **St** Transaction Set Header  
**Loop:** None  
**Level:** Header  
**Usage:** Mandatory  
**Max Use:**  
**Purpose:** To indicate the start of a transaction set and to assign a control number  
**Example:** ST\*863\*0001

**Data Element Summary**

<u>Use</u>	<u>Reference Designator</u>	<u>Data Element</u>	<u>Name</u>		<u>Attributes</u>	
Yes	ST01	143	<b>Transaction Set Identifier Code</b>	M	ID	3/3
			863 Code uniquely identifying a transaction set.			
Yes	ST02	329	<b>Transaction Set Control Number</b>	M	AN	4/9

**Note:** The transaction set control number (ST02) in the Transaction Set Header must match the transaction set control number (SE02) in the Transaction set Trailer.

**Segment:** **BTR** Beginning Segment for Test Results  
**Loop:**  
**Level:** Header  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the beginning of a test result transaction set.  
**Example:** BTR\*00\*971107\*1445\*RT\*883355

**Data Element Summary**

<u>Use</u>	<u>Reference Designator</u>	<u>Data Element</u>	<u>Name</u>		<u>Attributes</u>	
Yes	BTR01	353	<b>Transaction Set Purpose Code</b> Code identifying the purpose of the transaction set - 00	M	ID	2/2
Yes	BTR02	373	<b>Date</b> YYMMDD Transaction Creation Date	M	DT	6/6
Yes	BTR03	337	<b>Time</b> HHMM Transaction Creation Time	M	TM	4/6
Yes	BTR04	755	<b>Report Type Code</b> RT Report of test and analysis Report	M	DT	2/2
Yes	BTR05	127	<b>Reference Number</b> Bill of lading Number	O	ID	1/30
No	BTR06	127	<b>Reference Number</b> Not Used	X	AN	1/30

**Segment:** **NTE** Note / Special Instructions  
**Loop:**  
**Level:** Header  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To transmit information in a free format, if necessary, for comment or special instructions.  
**Example:** NTE\*ZZZ\*THIS SEGEMENT CAN CONTAIN SPECIAL INSTRUCTIONS  
 NTE\*ZZZ\*OR COMMENTS, OVER SEVERAL LINES

**Data Element Summary**

<u>Use</u>	<u>Reference Designator</u>	<u>Data Element</u>	<u>Name</u>		<u>Attributes</u>	
Yes	NTE01	363	<b>Note Reference Code</b> ZZZ Always this value	M	ID	3/3
Yes	NTE02	3	<b>Free Form Message</b>	M	AN	1/60

**Segment:** N1 Name  
**Loop:**  
**Level:** Header  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify a party by type of organization, name and code  
**Example:** N1\*SU\*\*1\*200533354

**Data Element Summary**

<u>Use</u>	<u>Reference Designator</u>	<u>Data Element</u>	<u>Name</u>		<u>Attributes</u>	
Yes	N101	98	<b>Entity Identifier Code</b> *SU Supplier / Manufacturer *PT Party to Receive Test Report SF Ship From ST Ship To	M	ID	2/2
No	N102	93	<b>Name</b> Not Used	X	AN	1/35
Yes	N103	66	<b>Identifier Code Qualifier</b>	M	ID	1/2
Yes	N104	67	<b>Identification Code</b>	M	AN	2/17

**Detail Area**

**Segment:** **LIN** Item Identification  
**Loop:** LIN  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify basic identification data for a given part  
**Example:** LIN\*\*VO\*118384018\*BP\*C312\*HN\*216855\*SN\*J41590\*8271747

**Data Element Summary**

<u>Use</u>	<u>Reference Designator</u>	<u>Data Element</u>	<u>Name</u>		<u>Attributes</u>	
No	LIN01	350	Assigned Identification Not Used	X	AN	1/11
Yes	LIN02	235	Product / Service ID Qualifier *VO Vendor Order Number	M	ID	2/2
Yes	LIN03	234	Product / Service ID	M	AN	1/30
Yes	LIN04	235	Product / Service ID Qualifier *BP Buyers Part Number	M	ID	2/2
Yes	LIN05	234	Product / Service ID	M	AN	1/30
Yes	LIN06	235	Product / Service ID Qualifier *HN Heat Number	M	ID	2/2
Yes	LIN07	234	Product / Service ID	M	AN	1/30
Yes	LIN08	235	Product / Service Qualifier *SN Serial Number	M	ID	2/2
Yes	LIN09	234	Product / Service ID	M	AN	1/30
No	LIN10- Lin31	234/ 235	Product / Service ID Qualifier  Product / Service ID Not used	X   X	ID   AN	2/2   1/30

**Segment:** **PID** Product / Item Description  
**Loop:** LIN  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To describe a product or Process in coded or free form format  
**Example:** PID\*F\*\*\*\*COMPANY 'PREMIER' GALVANIZED MINIMIZED SPANGLE SHT  
PID\*F\*\*\*\*E415,E1019,  
PID\*F\*\*\*\*O.E.M. PART

**Data Element Summary**

<u>Use</u>	<u>Reference Designator</u>	<u>Data Element</u>	<u>Name</u>		<u>Attributes</u>	
Yes	PID01	349	<b>Item Description Type</b> F Free Form	M	ID	1/1
No	PID02	750	<b>Product / Process Characteristic Code</b> Not Used	X	ID	2/3
No	PID03	559	<b>Agency Qualified Code</b> Not Used	X	ID	2/2
No	PID04	751	<b>Product Description Code</b> Not Used	X	ID	1/12
No	PID05	352	<b>Description</b> Not Used	X	AN	1/80
No	PID06	752	<b>Surface/Layer/Position Code</b> Not Used	X	ID	2/2
No	PID07	822	<b>Source Subqualifier</b> Not Used	X	AN	1/15
No	PID08	1073	<b>Yes/No Condition or Response Code</b> Not Used	X	ID	1/1



**Segment:** **CID** Characteristics / Class ID  
**Loop:** LIN  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify the general class or specific characteristic upon which test results are being reported or are being taken  
**Example:** CID\*\*69

**Data Element Summary**

<u>Use</u>	<u>Reference Designator</u>	<u>Data Element</u>	<u>Name</u>		<u>Attributes</u>	
No	CID01	738	Measurement Qualifier Not Used	X	ID	1/3
Yes	CID02	750	Product / Process Character Code <ul style="list-style-type: none"> <li>• 68 Chemical</li> <li>• 69 Physical</li> <li>• 71 Mechanical</li> </ul>	M	ID	2/3
No	CID03	559	Agency Qualifier Code Not Used	X	ID	2/2
No	CID04	751	Product Description Code Not Used	X	ID	1/12
No	CID05	352	Description Not Used	X	AN	1/80
No	CID06	822	Source Subqualifier Not Used	X	AN	1/15
No	CID07	1073	Yes/No Condition or Response Code Not Used	X	ID	1/1

**Segment:** **PSD** Physical Sample Description  
**Loop:** LIN/CID  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To define the physical sample parameters associated with a test resulting in discrete measurements  
**Example:** PSD\*02\*\*\*\*\*10

**Data Element Summary**

<u>Use</u>	<u>Reference Designator</u>	<u>Data Element</u>	<u>Name</u>		<u>Attributes</u>	
Yes	PSD01	939	<b>Sample Process Code</b> 02 Finished Product Specimen	M	ID	2/2
No	PSD02	940	<b>Sample Selection Method Code</b> Not Used	X	ID	2/2
No	PSD03	942	<b>Sample Frequency Value per Unit of Measurement</b> Not Used	X	NO	1/9
No	PSD04	355	<b>Unit or Basis for Measurement Code</b> Not Used	X	ID	2/2
No	PSD05	943	<b>Sample Description Code</b> Not Used	X	ID	2/2
No	PSD06	944	<b>Sample Direction Code</b> Not Used	X	ID	2/2
Yes	PSD07	945	<b>Sample Location Code</b> Lead, Edge 1 - 01 Lead, Centre - 02 Lead, Edge 1 - 03 Trail, Edge 1 - 04 Trail., Centre - 05 Trail, Edge 1 - 06 Ladle - 10 Front (lead) - 11 Back (trail) - 12 Centre - 13 Bottom - BT Top - TP	O	ID	2/2

**Segment:** **MEA** Measurements  
**Loop:** LIN/CID  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify physical and chemical measurements  
**Example:** MEA\*CH\*ZSI\*0.0090\*P1  
 MEA\*TR\*YB\*39.300\*84

**Data Element Summary**

<u>Use</u>	<u>Reference Designator</u>	<u>Data Element</u>	<u>Name</u>	<u>Measurement Reference ID Code</u>	<u>Attributes</u>
Yes	MEA01	737	Measurement		M ID 2/2
			<ul style="list-style-type: none"> <li>• *PD Physical</li> <li>• *CH Chemical</li> <li>• *TR Test Results (Mechanical)</li> </ul>		
Yes	MEA02	738	Measurement Qualifier		M ID 1/3
			<b>Physical</b> <ul style="list-style-type: none"> <li>• *TH Thickness</li> <li>• *WD Width</li> <li>• *WT Weight</li> </ul>		
			<b>Chemical</b> <ul style="list-style-type: none"> <li>• *ZAL Aluminum</li> <li>• ZB Boron</li> <li>• *ZC Carbon</li> <li>• ZCA Calcium</li> <li>• *ZCB Columbium</li> <li>• ZCO Cobalt</li> <li>• *ZCR Chromium</li> <li>• *ZCU Copper</li> <li>• *ZMN Manganese</li> <li>• *ZMO Molybdenum</li> <li>• *ZN Nitrogen</li> <li>• *ZNI Nickel</li> <li>• ZO Oxygen</li> <li>• *ZP Phosphorus</li> <li>• *ZS Sulphur</li> <li>• ZSB Antimony</li> <li>• *ZSI Silicon</li> <li>• *ZSN Tin</li> <li>• *ZTI Titanium</li> <li>• *ZV Vanadium</li> <li>• ZW Tungsten</li> <li>• ZZR Zirconium</li> </ul>		
			<b>Mechanical</b> <ul style="list-style-type: none"> <li>• *YB Yield Strength 0.2% Offset</li> <li>• *TF Tensile Strength</li> <li>• *EA Total Percent Elongation</li> <li>• *MR Rbar</li> <li>• *NV Nbar</li> <li>• RK Rockwell RB</li> <li>• RJ Rockwell RC</li> <li>• BN Bend Test</li> <li>• ADH Impact Test Izod</li> <li>• CTG Coating-Weight / Mass</li> <li>• POW Vbend</li> <li>• SUR Profilometer</li> </ul>		
Yes	MEA03	739	Measurement Value		M R 1/10

Yes	MEA04	355	<b>Unit of Measurement Code</b> <u>Physical</u> <ul style="list-style-type: none"> <li>• E8 Actual Inches in Decimal</li> <li>• LB Pounds</li> </ul> <u>Chemical</u> <ul style="list-style-type: none"> <li>• P1 Percent</li> </ul> <u>Mechanical</u> <ul style="list-style-type: none"> <li>• 15 Rockwell R15</li> <li>• 30 Rockwell R30</li> <li>• 45 Rockwell R45</li> <li>• 84 KSI</li> <li>• M8 MPA</li> <li>• KM KGF</li> <li>• PS PSI</li> <li>• GM Grams / Square Meter</li> <li>• P1 Percent</li> <li>• E8 Actual Inches in Decimal</li> <li>• RB Rockwell B</li> <li>• RC Rockwell C</li> </ul>	M	ID	2/2
No	MEA05	740	<b>Range Minimum</b> Not Used	X	R	1/20
No	MEA06	741	<b>Range Maximum</b> Not Used	X	R	1/20
No	MEA07	935	<b>Measurement Significance Code</b> Not Used	X	ID	2/2
No	MEA08	936	<b>Measurement Attribute Code</b> Not Used	X	ID	2/2
No	MEA09	752	<b>Surface/Layer/Position Code</b> Not Used	X	ID	2/2
No	MEA10	1373	<b>Measurement Method or Device</b> Not Used	X	ID	2/4

**Segment:** **DTM** Date / Time Reference  
**Loop:** LIN/CID/MEA  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify pertinent dates and times  
**Example:** DTM\*119\*950909\*1230

Data Element Summary

<u>Use</u>	<u>Reference Designator</u>	<u>Data Element</u>	<u>Name</u>		<u>Attributes</u>	
Yes	DTM01	374	<b>Date / Time Qualifier</b> 119 Test Performed	M	ID	3/3
Yes	DTM02	373	<b>Date</b> YYMMDD	M	DT	6/6
Yes	DTM03	337	<b>Time</b> HHMM	M	TM	4/6
No	DTM04	624	<b>Century</b> Not Used	X	NO	2/2
No	DTM05	1250	<b>Date Time Period Format Qualified</b> Not Used	X	ID	2/3
No	DTM06	1251	<b>Date Time Period</b> Not Used	X	AN	1/35

**Segment:** **REF** Reference Numbers  
**Loop:** LIN/CID/MEA  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify identifying numbers for mechanical test results only  
**Example:** REF\*TP\*\*ASTM A370

**Data Element Summary**

<u>Use</u>	<u>Reference Designator</u>	<u>Data Element</u>	<u>Name</u>		<u>Attributes</u>	
Yes	REF01	128	<b>Reference Number Qualifier</b> TP Test Specification	M	ID	2/2
No	REF02	127	<b>Reference Number</b> Not Used	X	AN	1/30
Yes	REF03	352	<b>Description</b> Mechanical Test Specification	M	AN	1/80

**Summary Area**

**Segment:** **CTT** Transaction Totals  
**Loop:**  
**Level:** Summary  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To transmit a hash total for a specific element in the transaction set  
**Example:** CTT\*1

**Data Element Summary**

<u>Use</u>	<u>Reference Designator</u>	<u>Data Element</u>	<u>Name</u>		<u>Attributes</u>	
Yes	CTT01	354	<b>Number of line Items</b> Total Transactions	M	NO	1/6
No	CTT02	347	<b>Hash Total</b> Not Used	X	R	1/10
No	CTT03	81	<b>Weight</b> Not Used	X	R	1/10
No	CTT04	355	<b>Unit or Basis for Measurement Code</b> Not Used	X	ID	2/2
No	CTT05	183	<b>Volume</b>	X	R	1/8
No	CTT06	355	<b>Unit or Basis for Measurement Code</b> Not Used	X	ID	2/2
No	CTT07	352	<b>Description</b> Not Used	X	AN	1/80

**Segment:** **SE** Transaction Set Trailer  
**Loop:**  
**Level:** Summary  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending(SE) segments)  
**Example:** SE\*32\*0001

**Data Element Summary**

<u>Use</u>	<u>Reference Designator</u>	<u>Data Element</u>	<u>Name</u>		<u>Attributes</u>	
Yes	SE01	96	Number of Included Segments	M	NO	1/10
Yes	SE02	329	Transaction Set and Control Number Use Value from ST02	M	AN	4/9